

FIG. 1

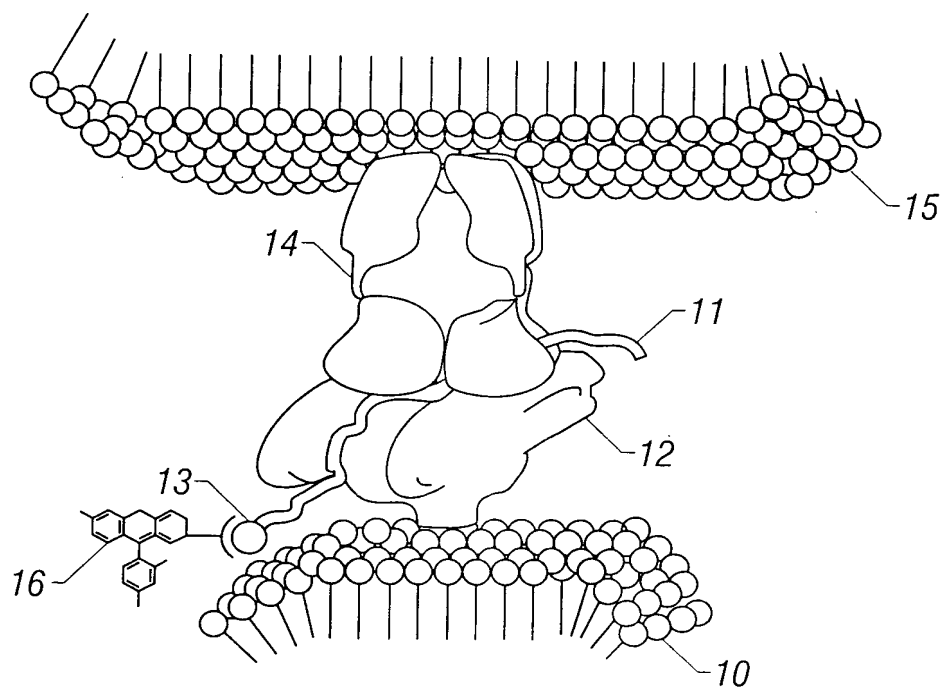


FIG. 2

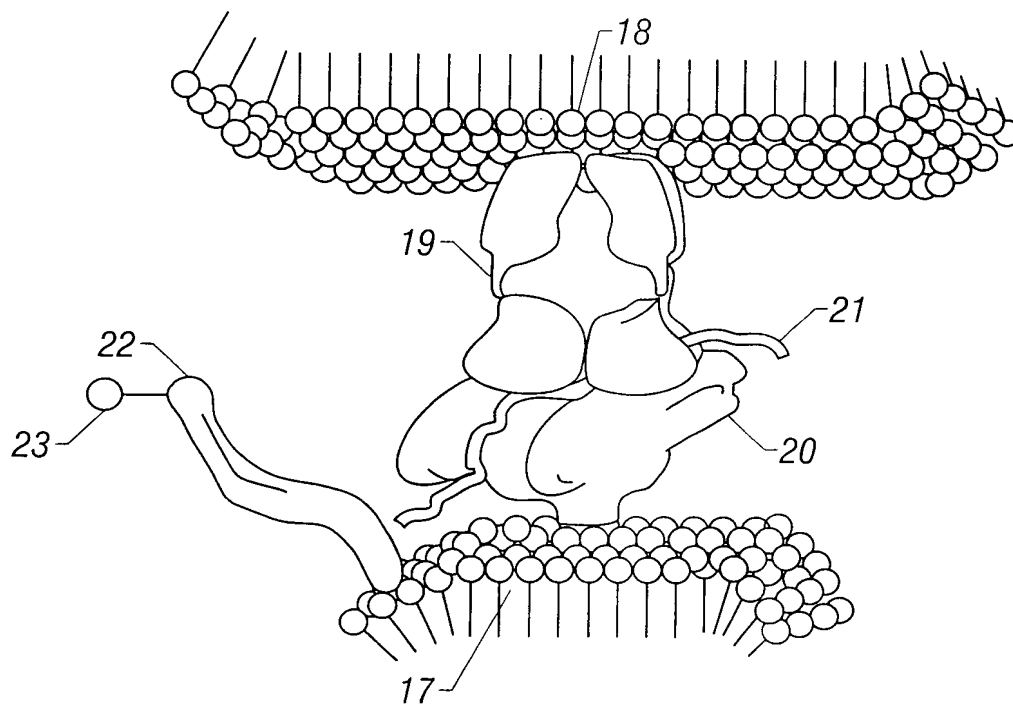


FIG. 3

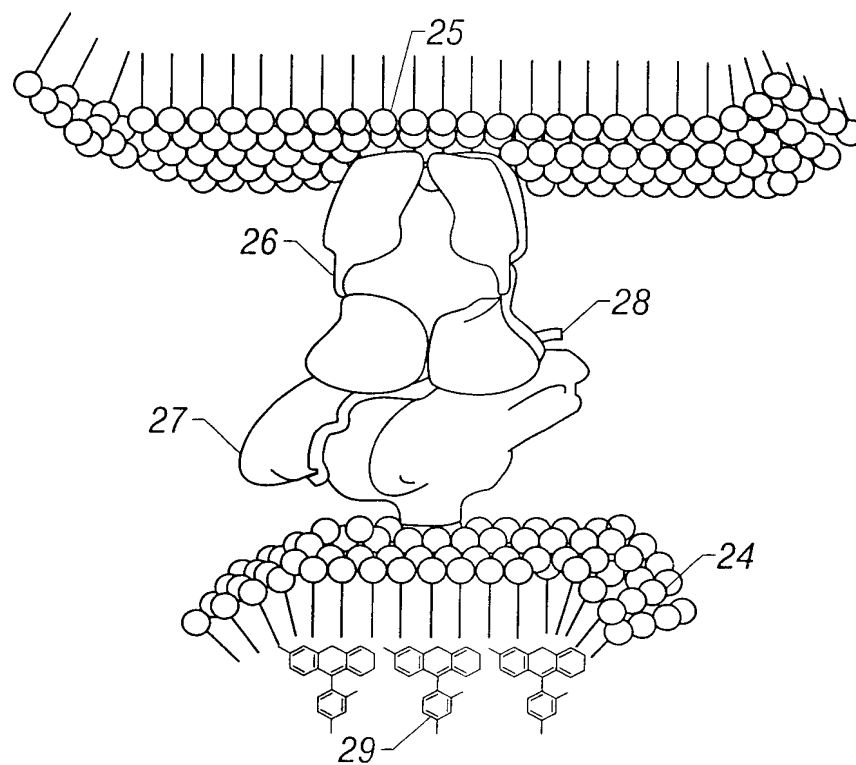


FIG. 4

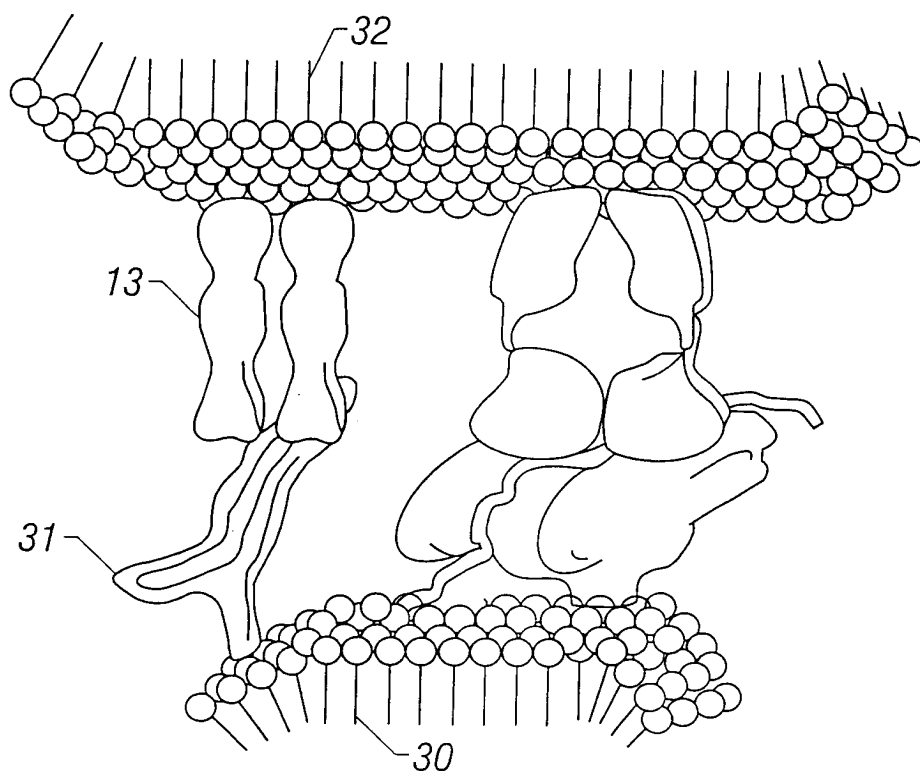


FIG. 5

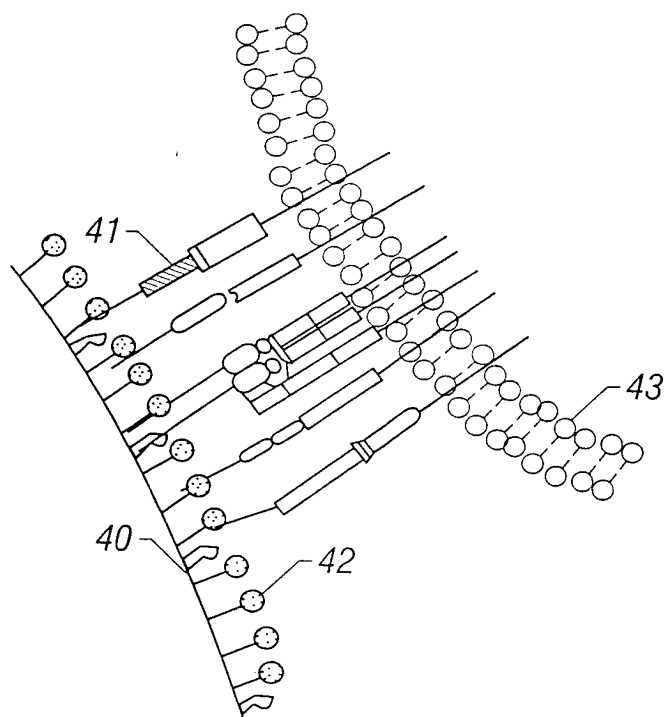


FIG. 7A

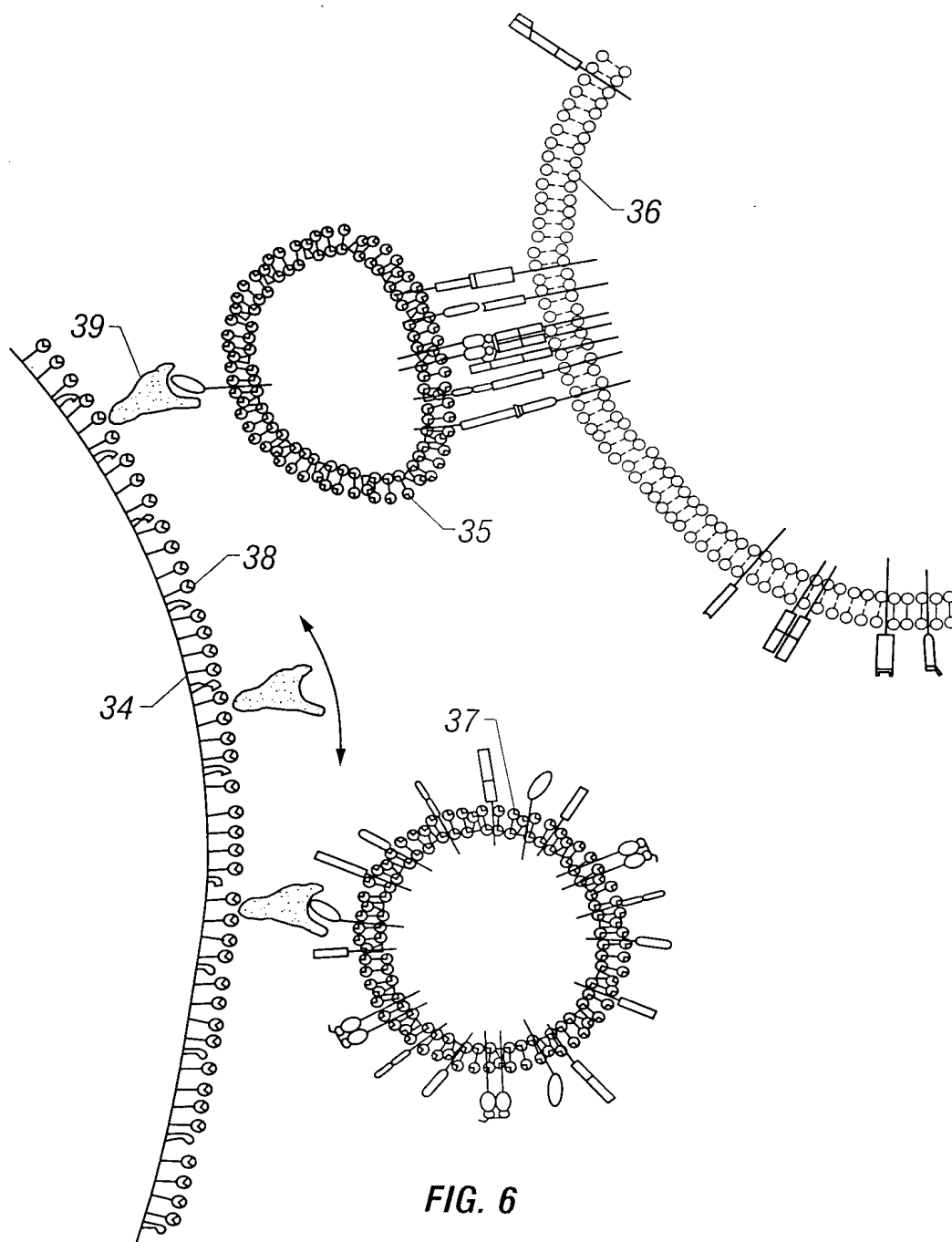


FIG. 6

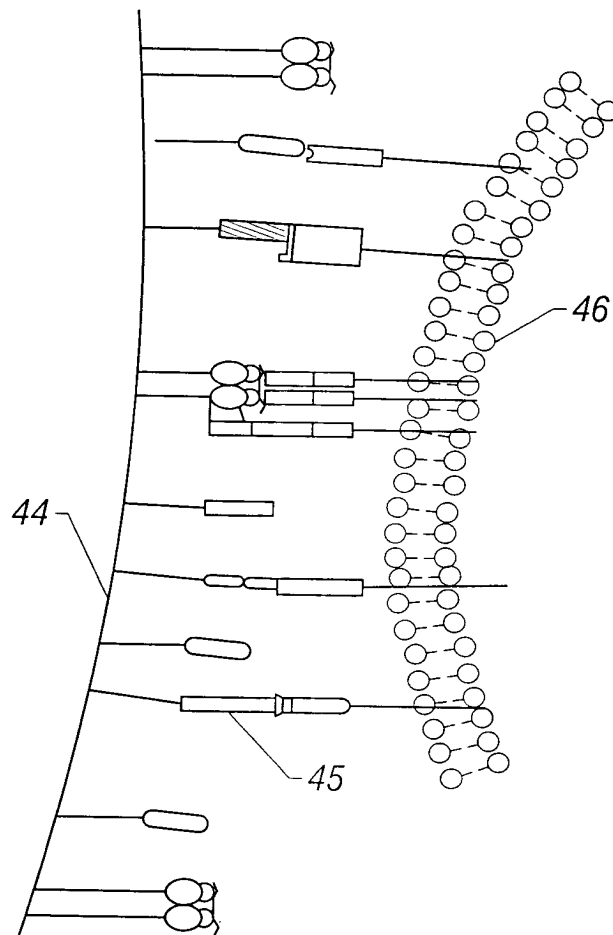


FIG. 7B

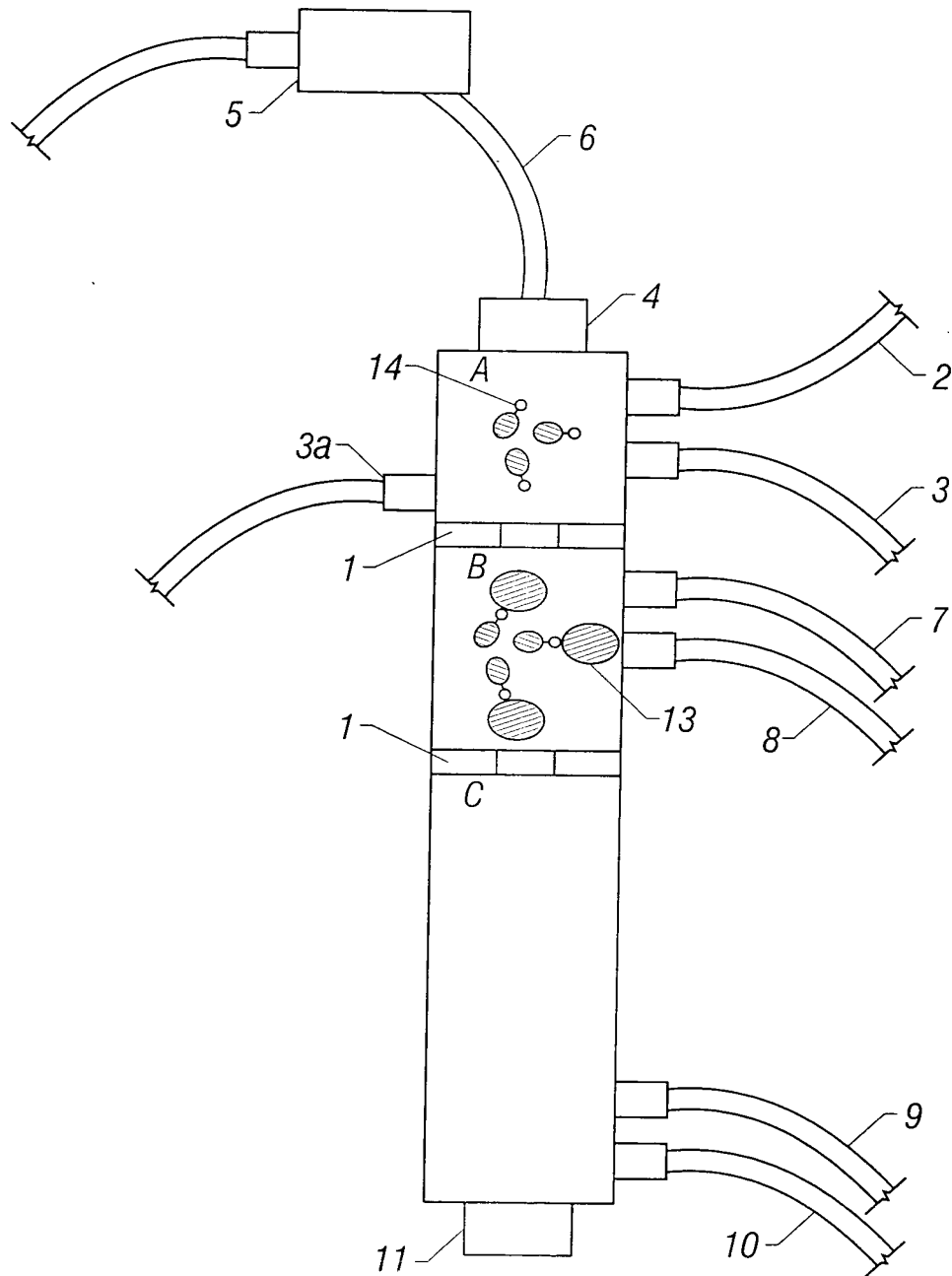


FIG. 8

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AG 111.207 T-T HYBRIDOMA
I-A^s/OVA³²³⁻³³⁶ SPECIFIC

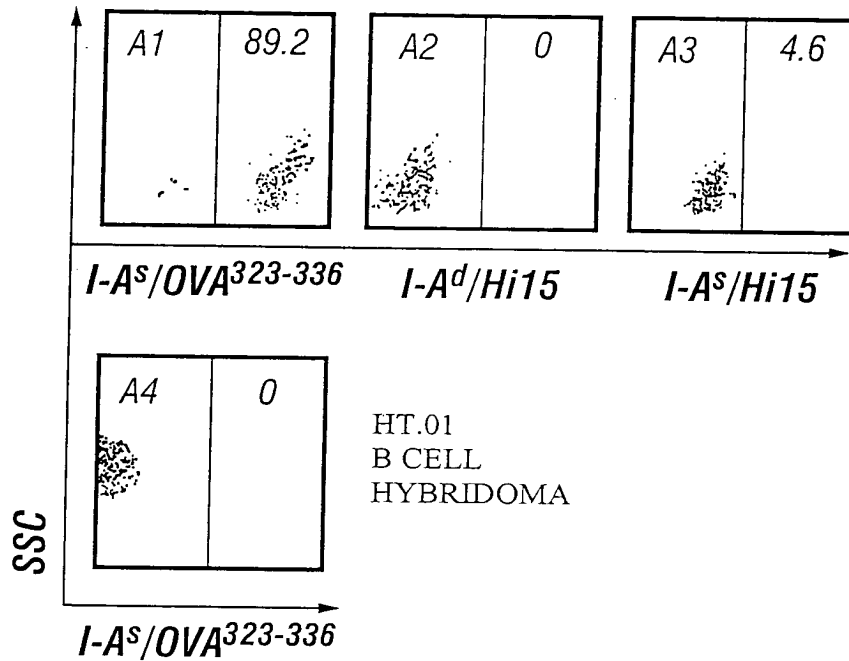


FIG. 9A

8DO 51.15 T-T HYBRIDOMA
I-A^d/OVA³²³⁻³³⁶ SPECIFIC

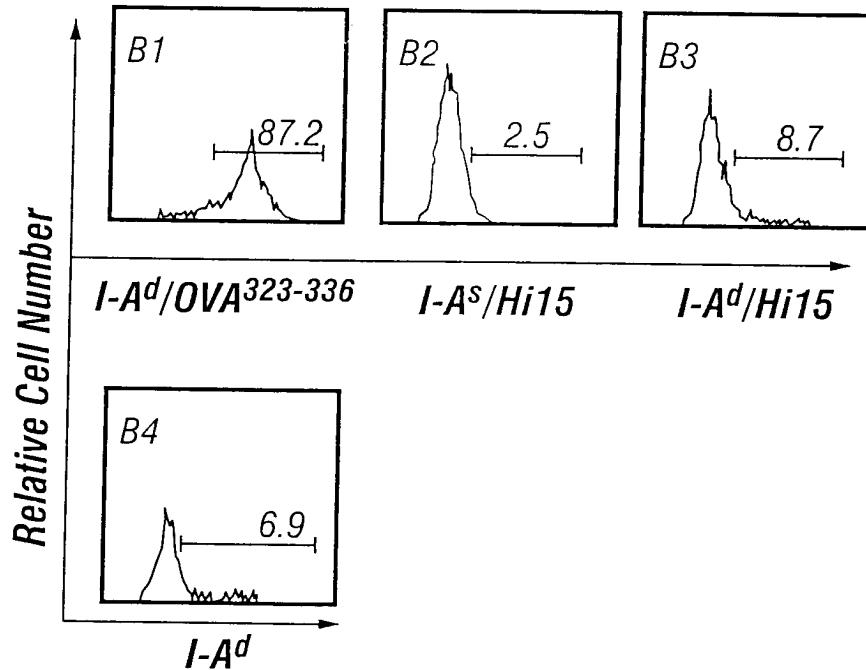


FIG. 9B

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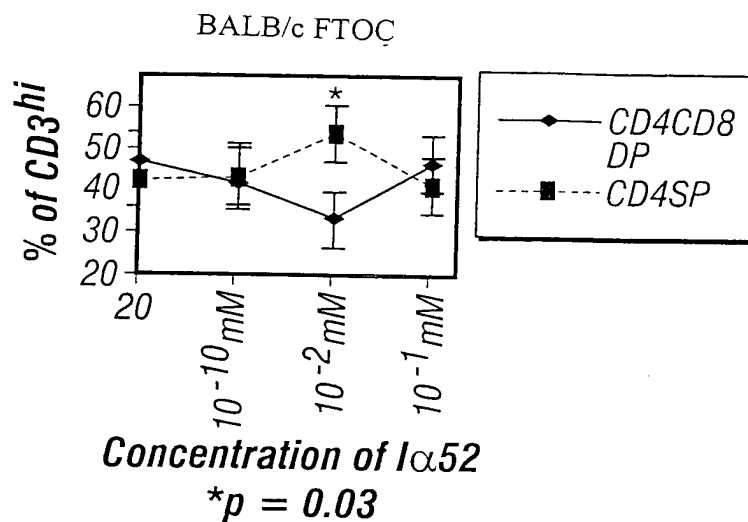


FIG. 10A

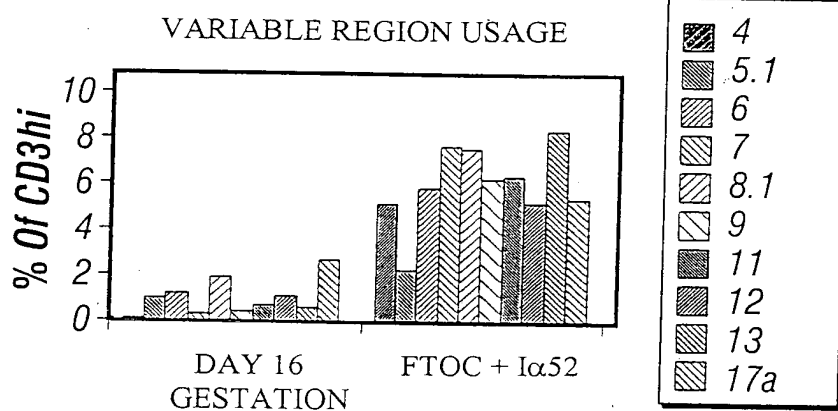


FIG. 10B

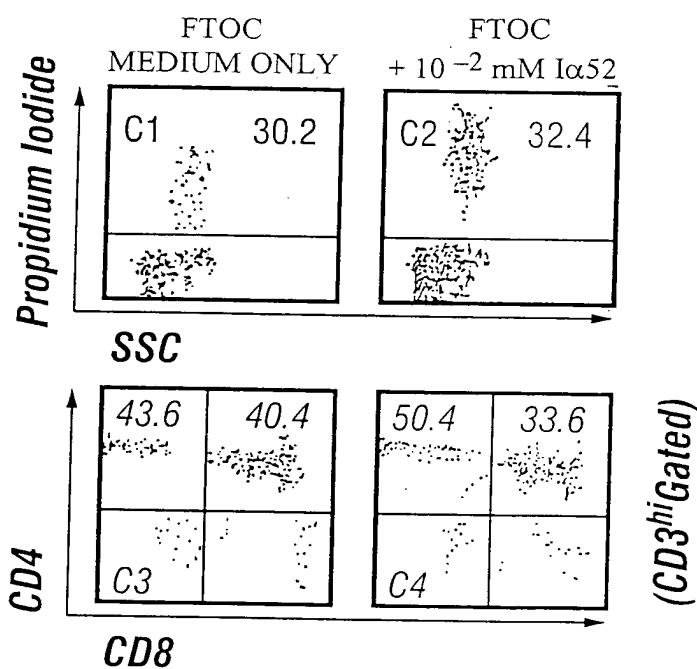


FIG. 10C

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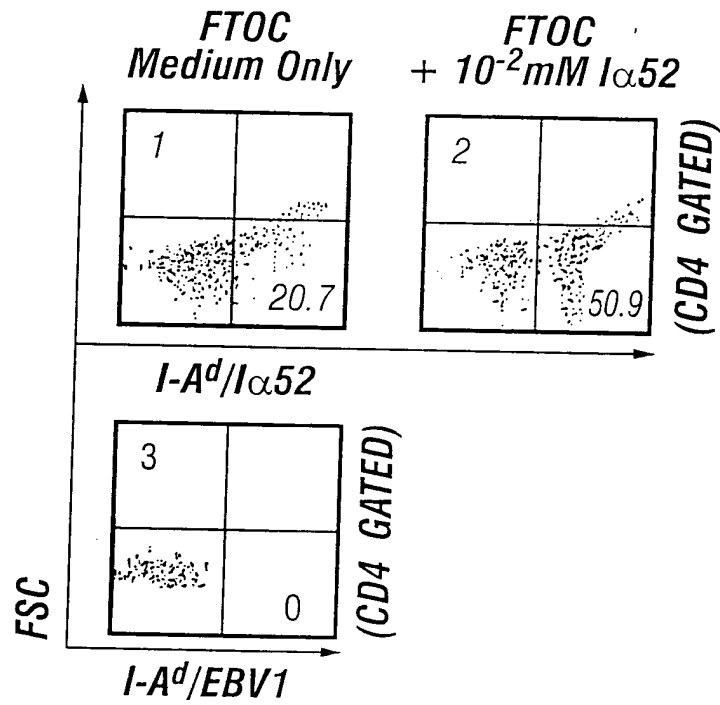


FIG. 11

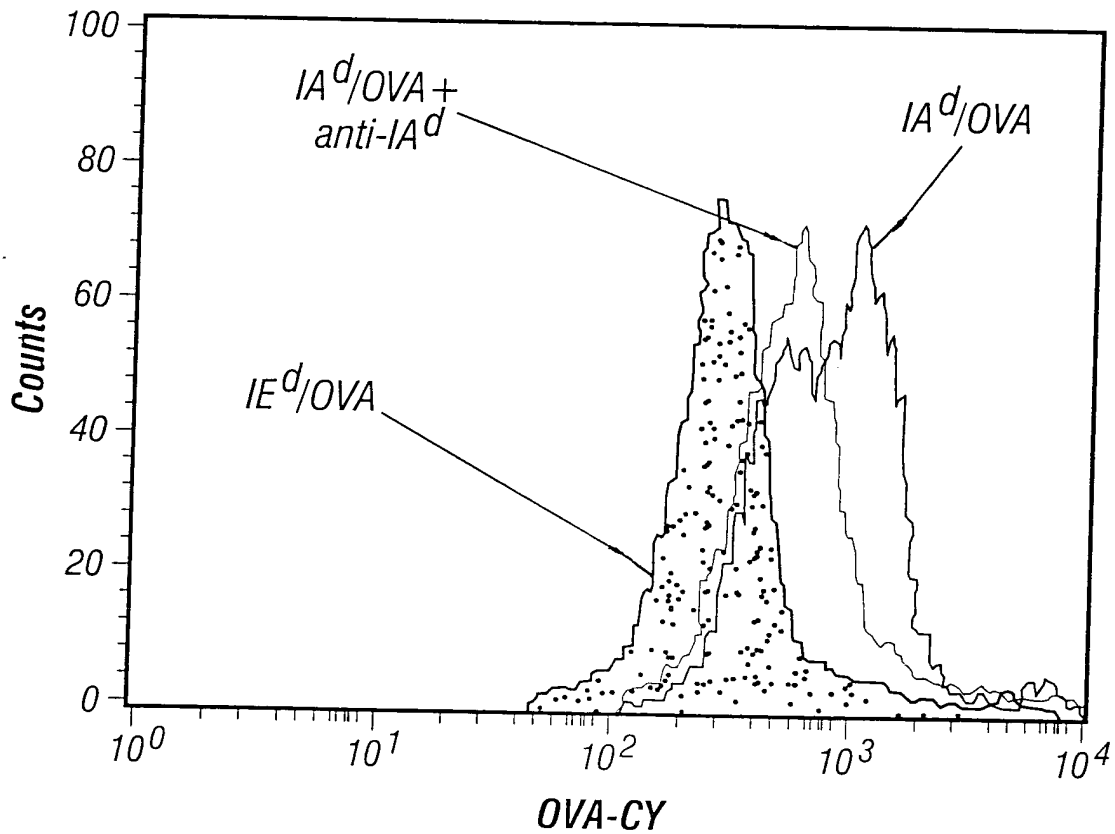


FIG. 15

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I α 52 SUPPLEMENTED FTOC
Hi15 EXPANDED LINE

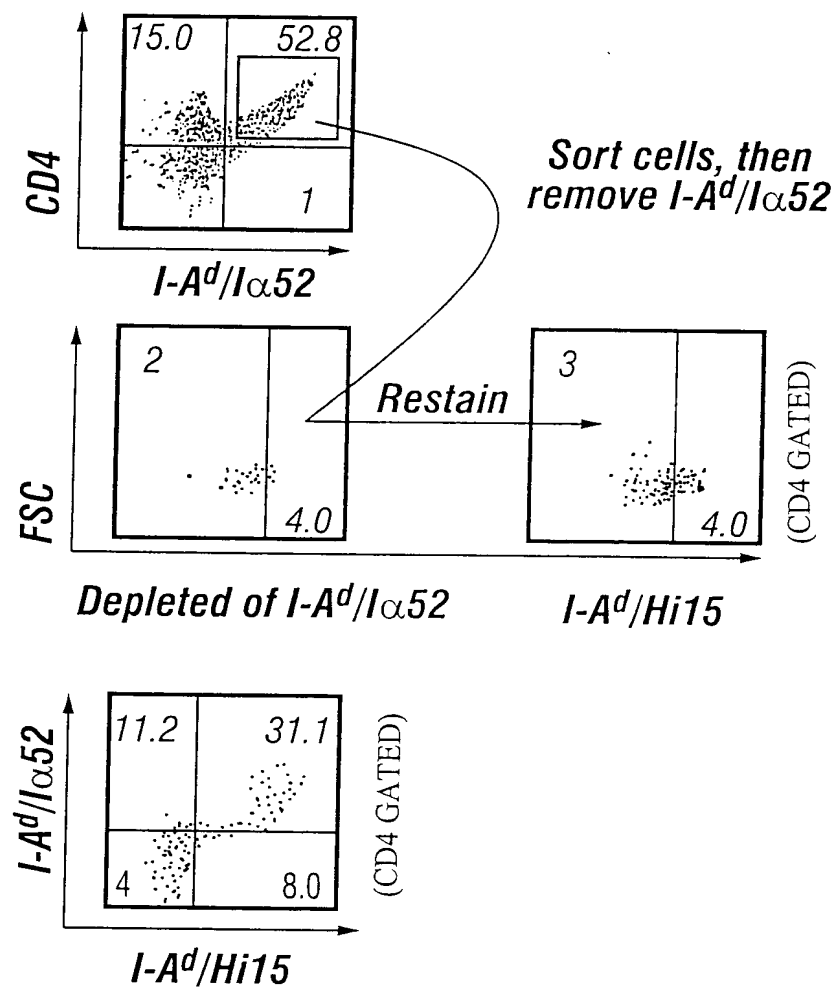


FIG. 12

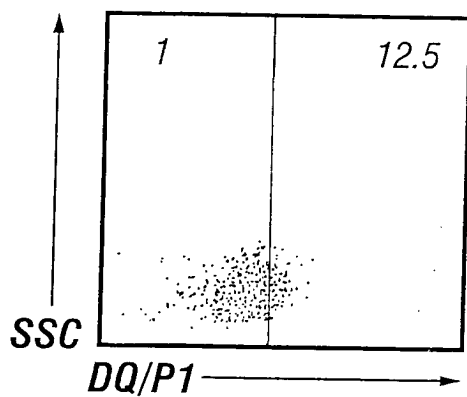


FIG. 13A

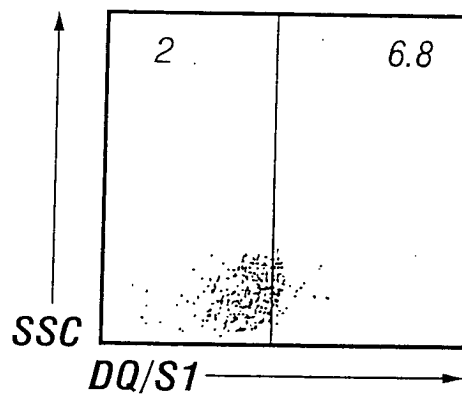


FIG. 13B

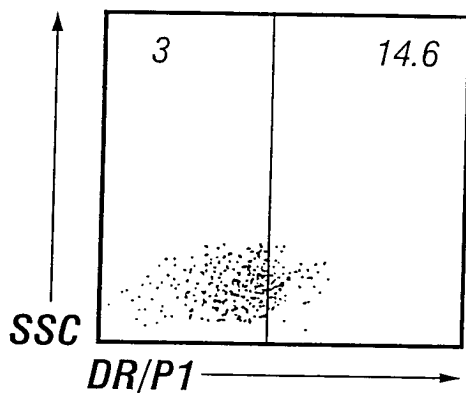


FIG. 13C

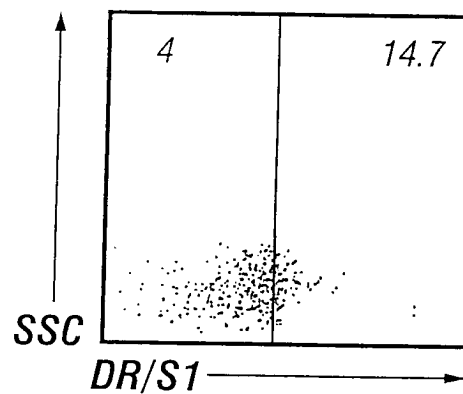


FIG. 13D

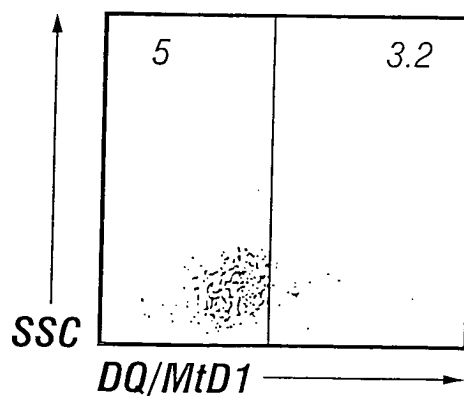


FIG. 13E

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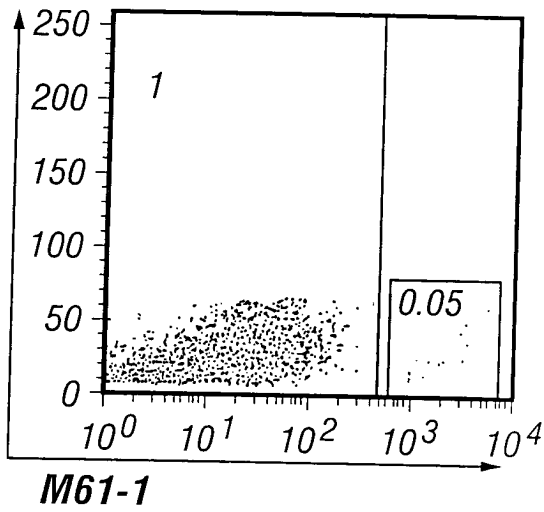


FIG. 14A

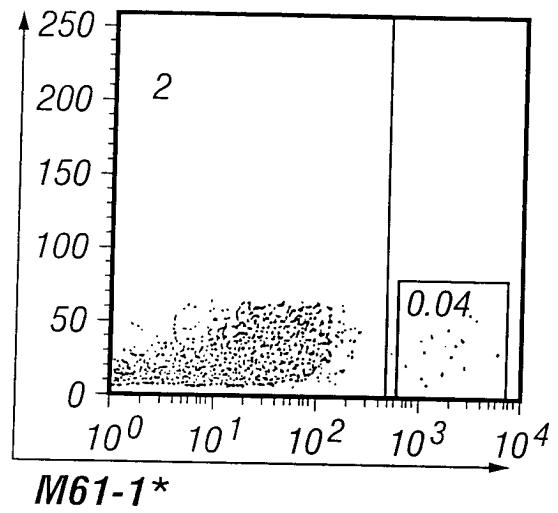


FIG. 14B

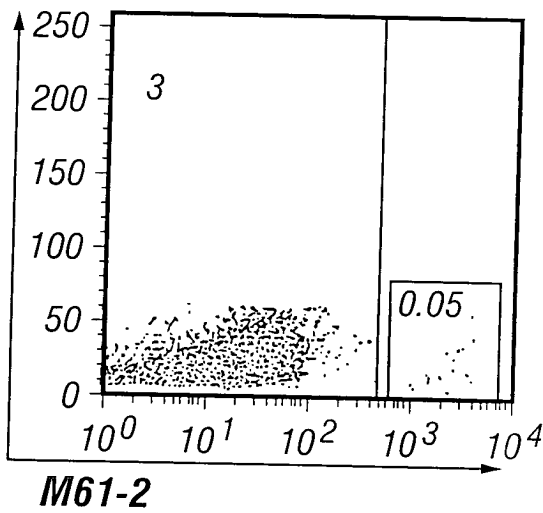


FIG. 14C

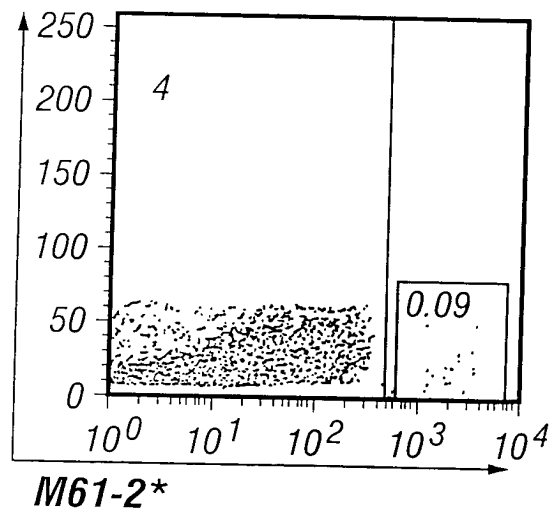


FIG. 14D

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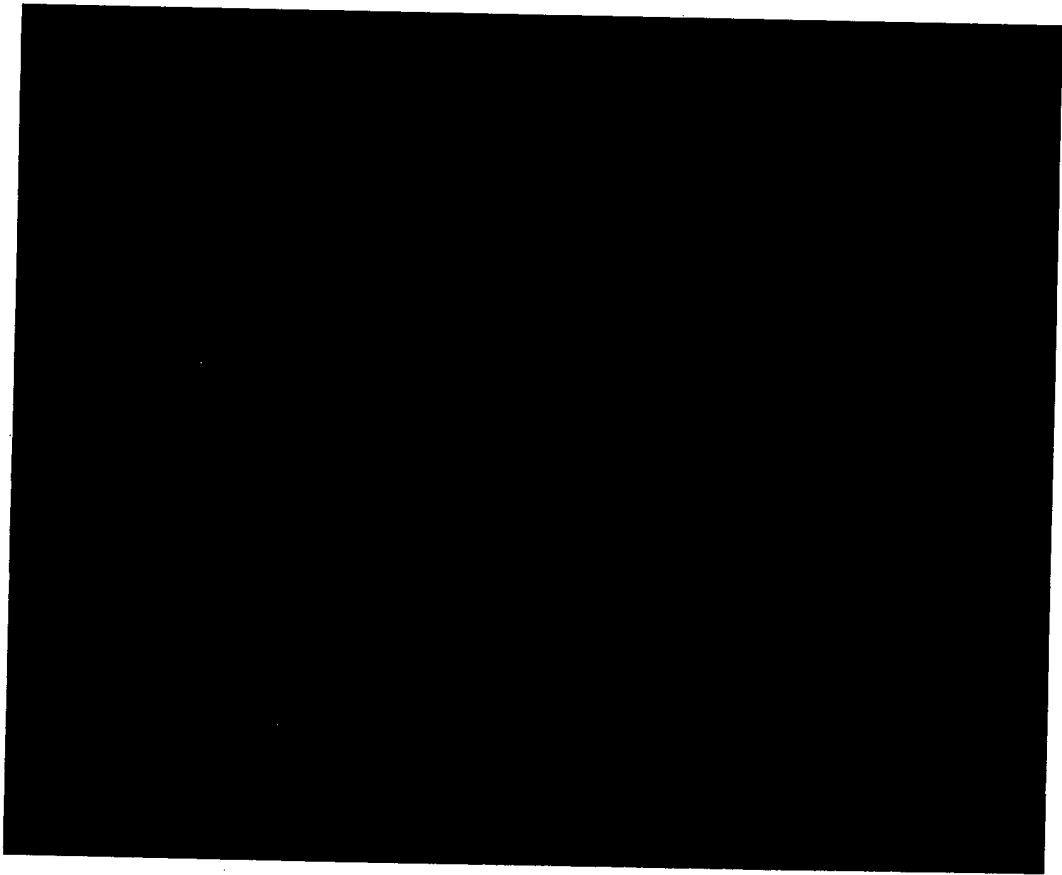


FIG. 16A

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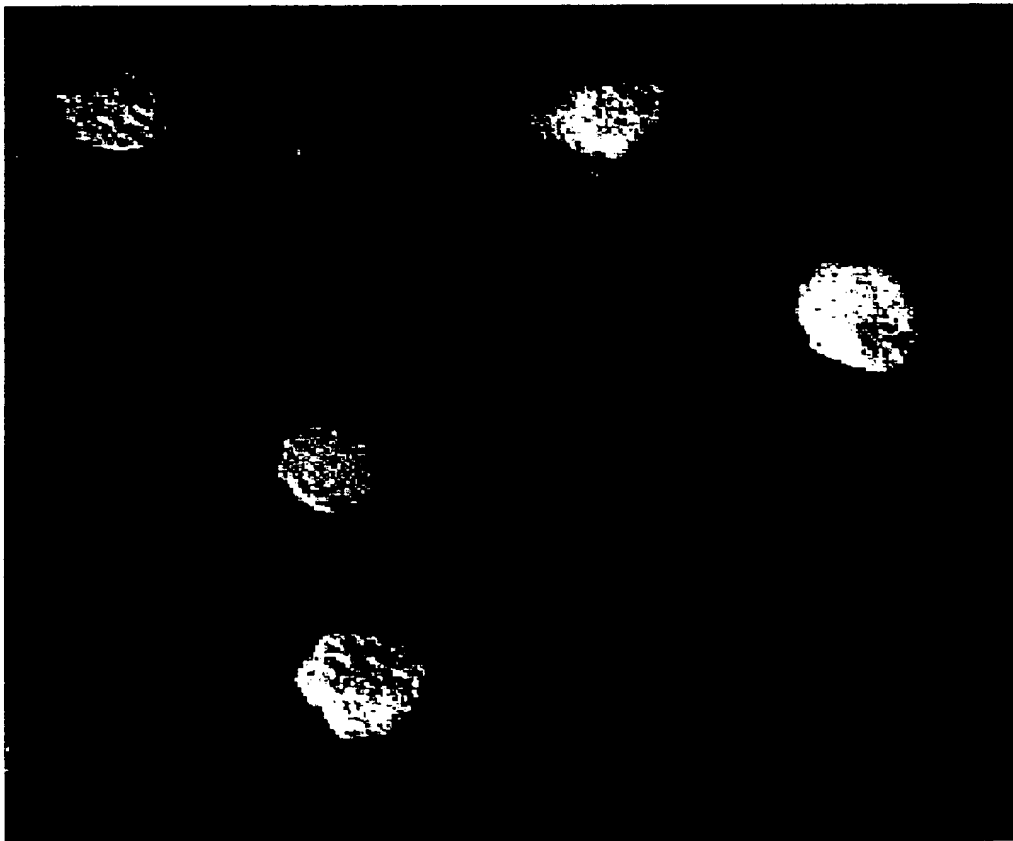


FIG. 16B

60-98
17
DRAFTSMAN
CADSW CLASS



FIG. 16C

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ARTIST
BY
DRAFTSMAN
CLASS

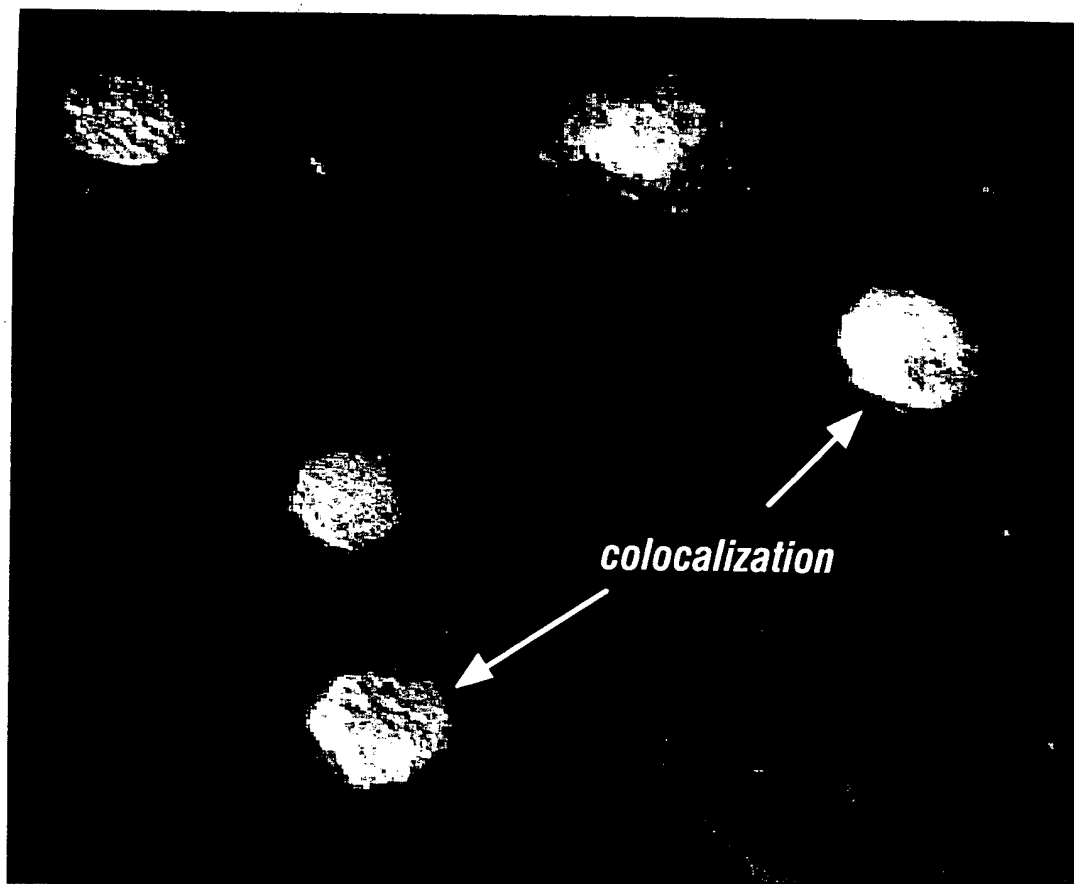


FIG. 16D

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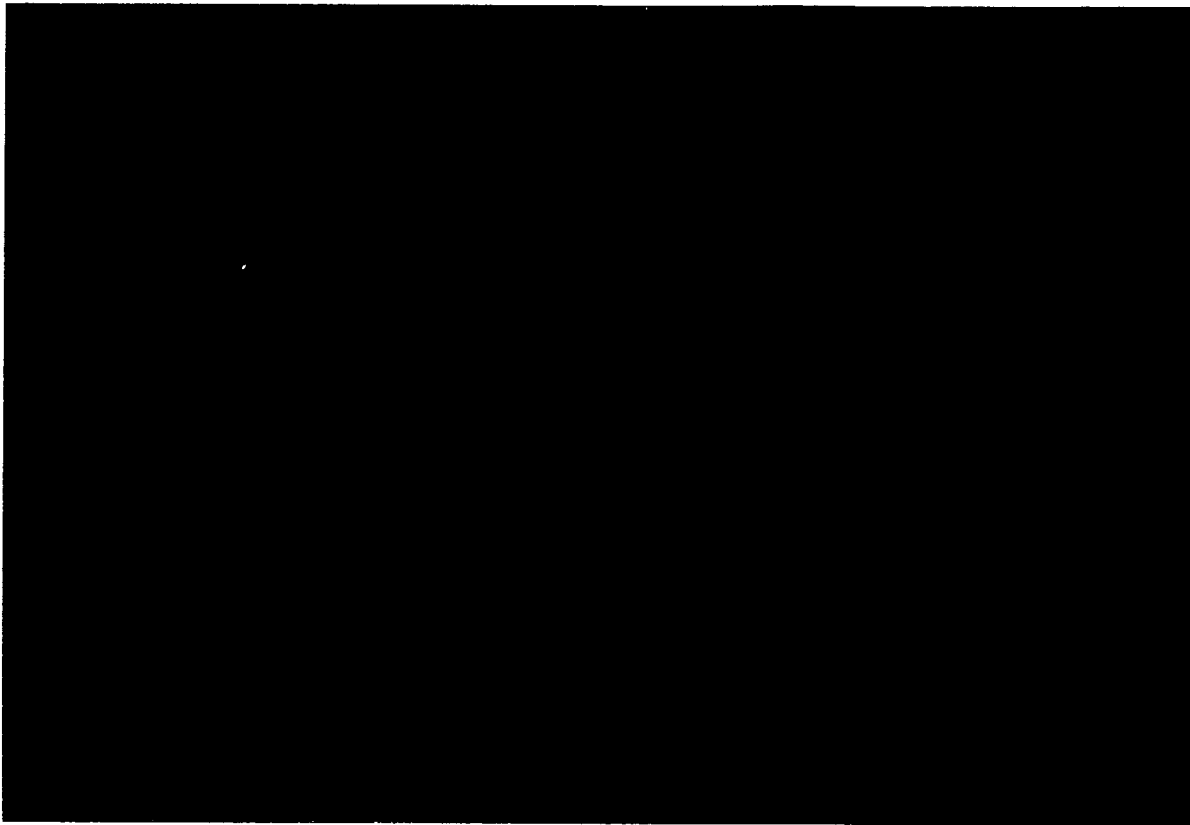


FIG. 17A

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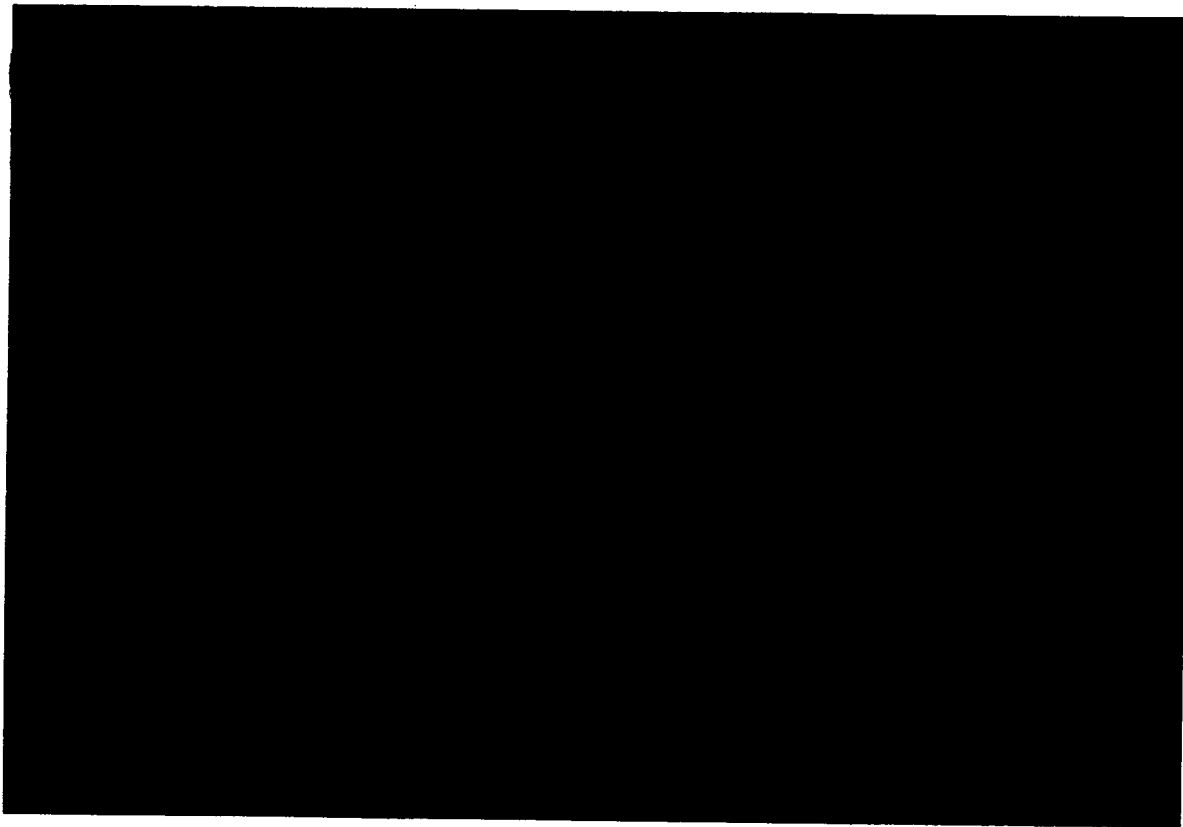


FIG. 17B

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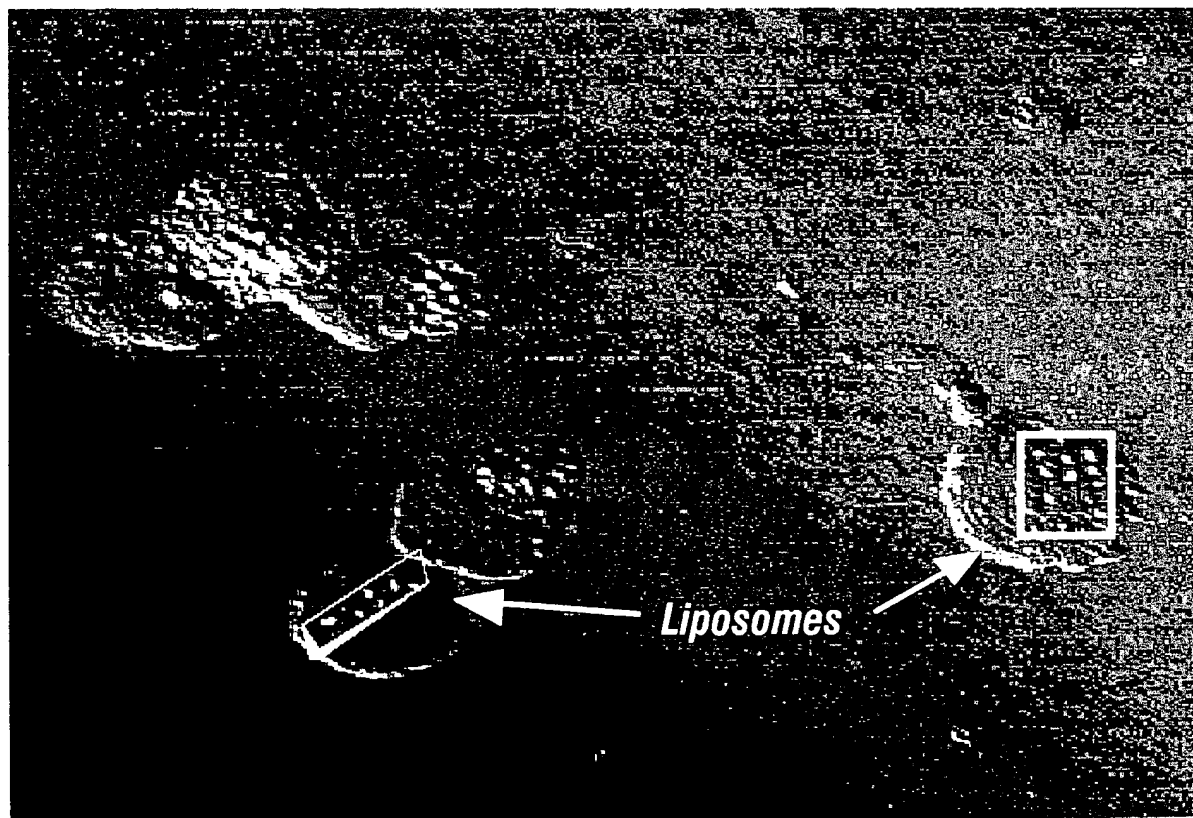


FIG. 17C

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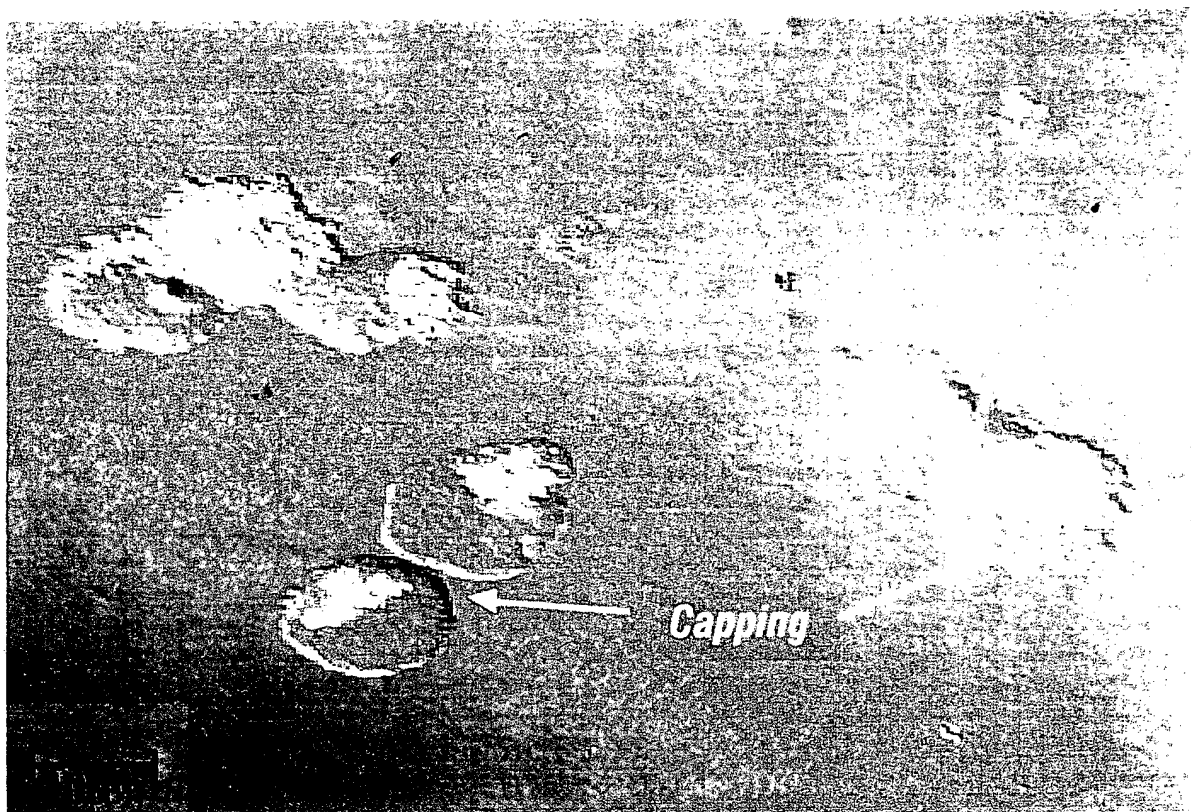


FIG. 17D

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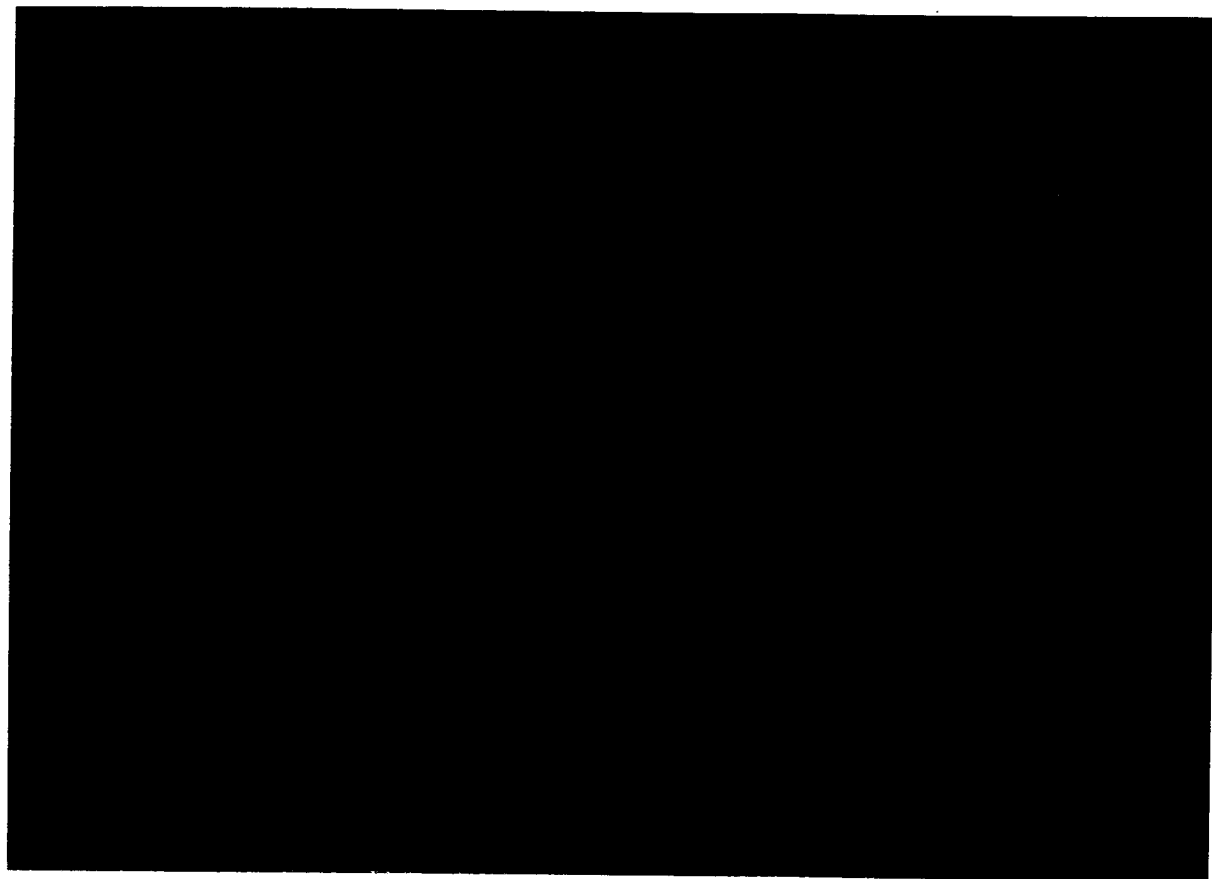


FIG. 18A

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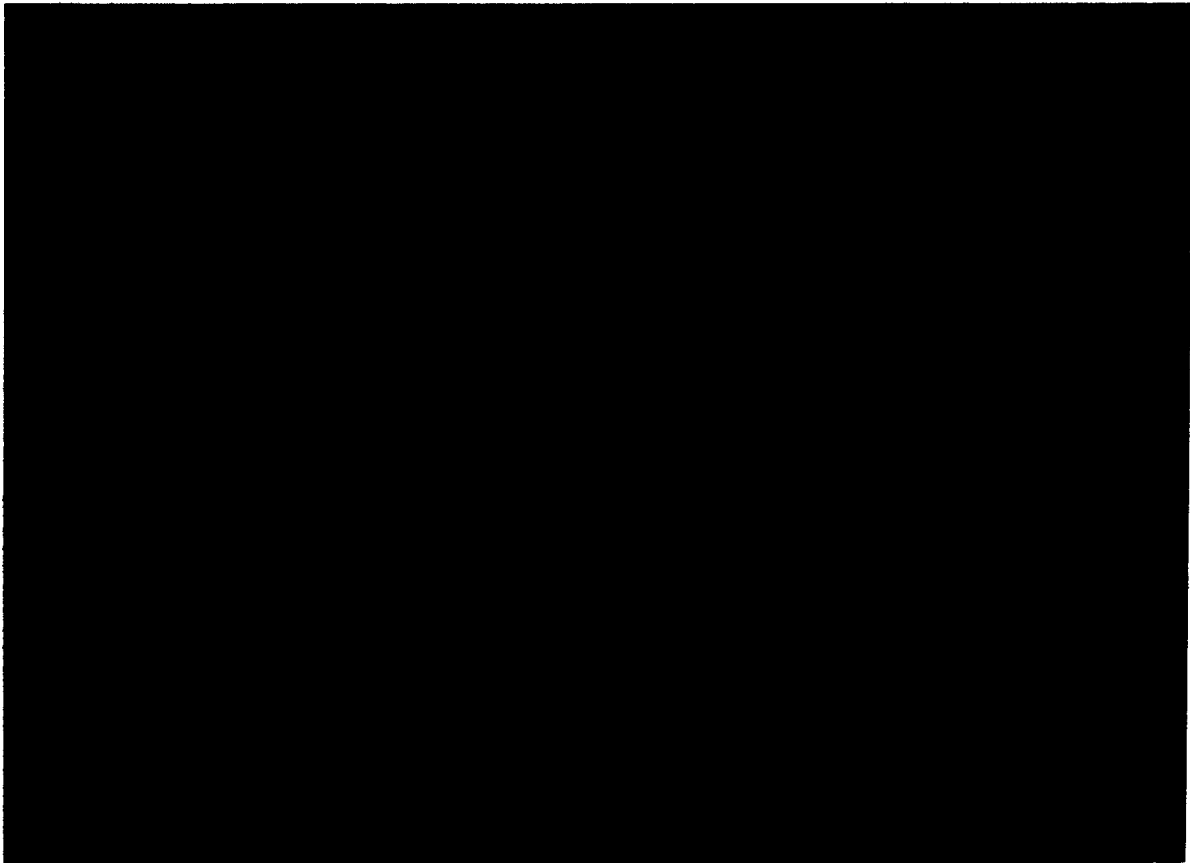


FIG. 18B

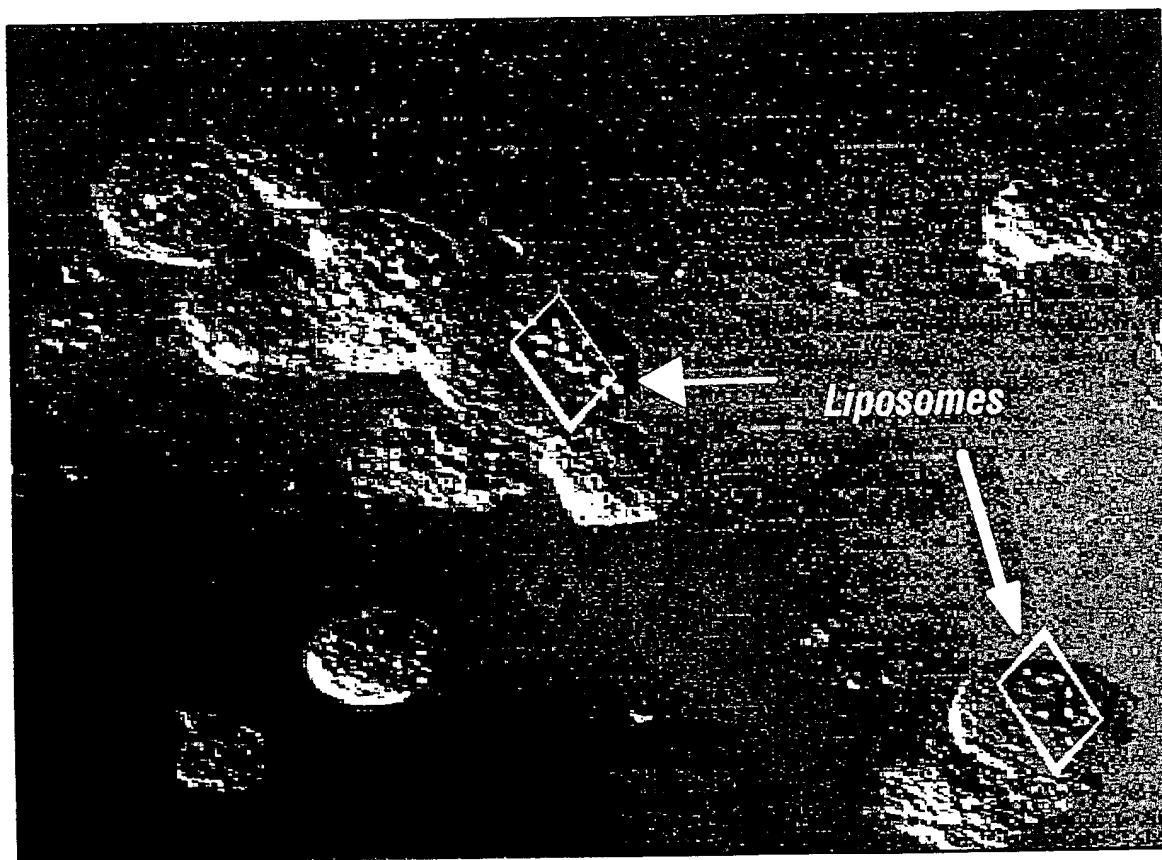


FIG. 18C

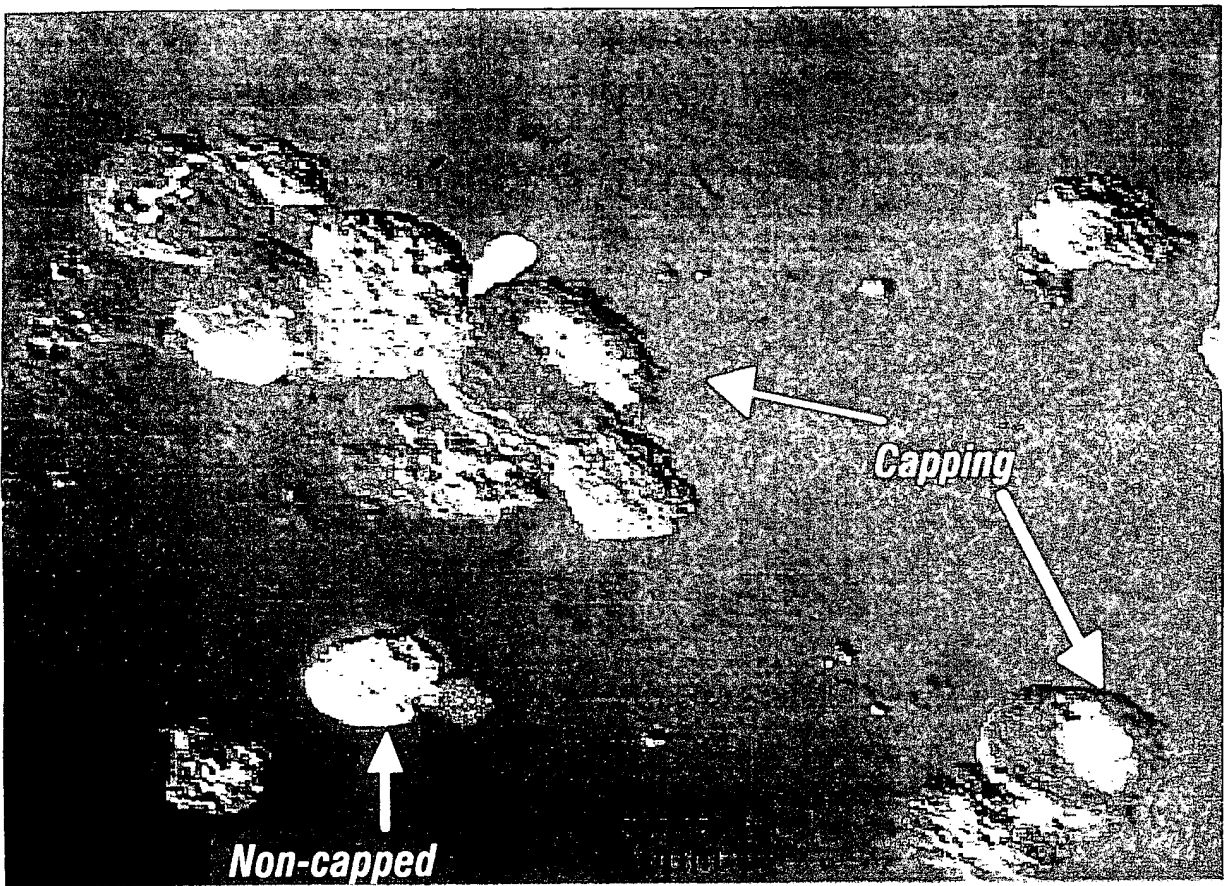
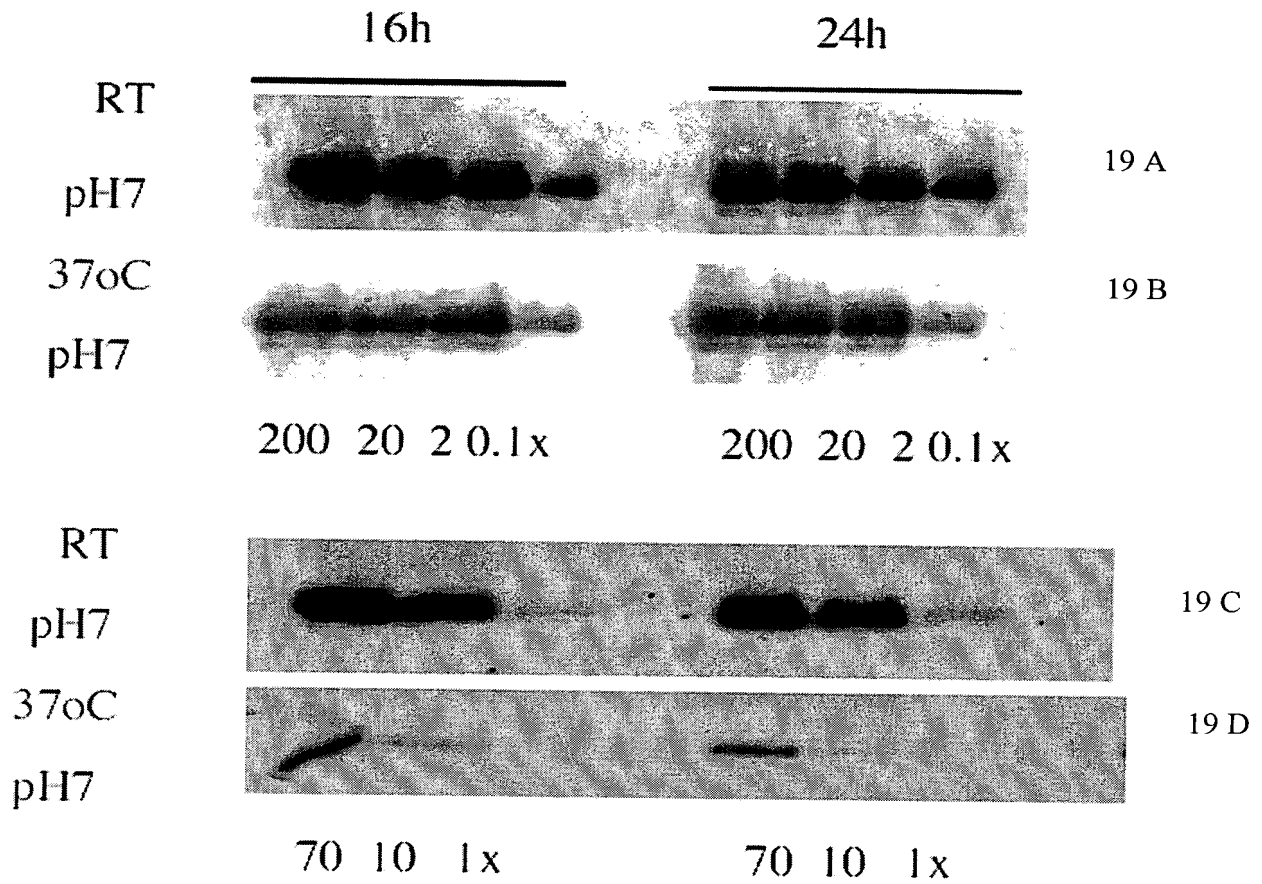


FIG. 18D

FIG. 19



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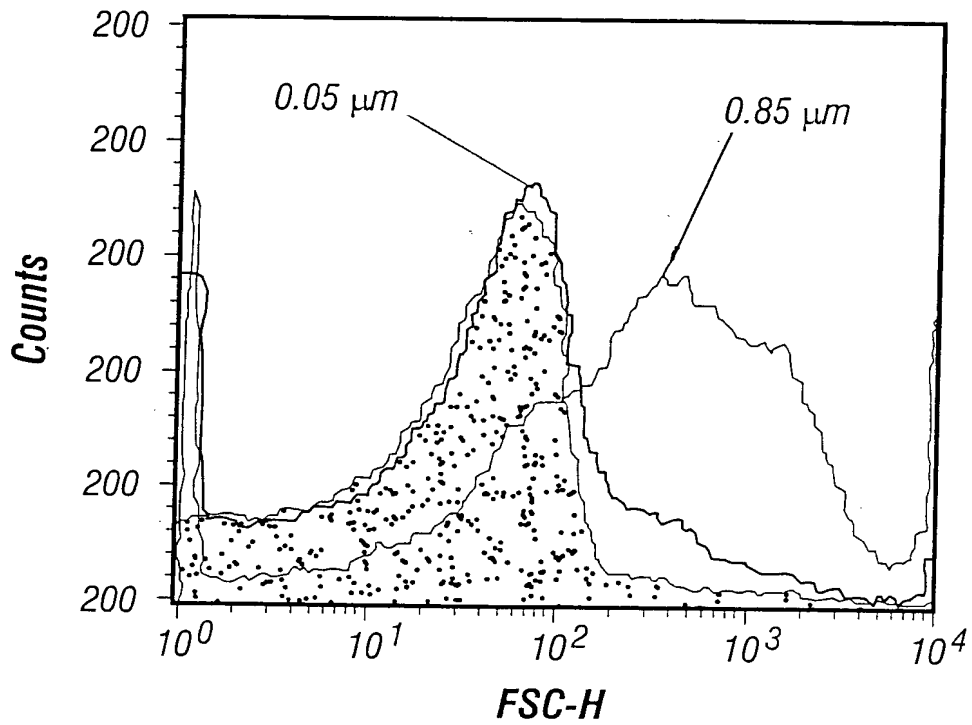


FIG. 20

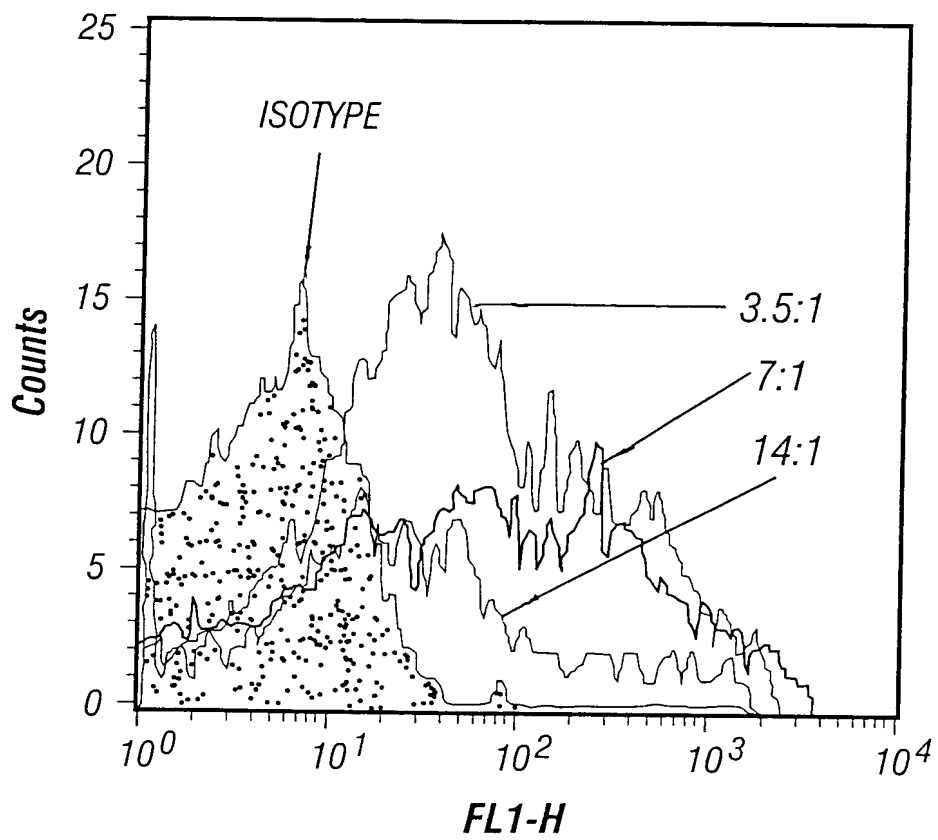
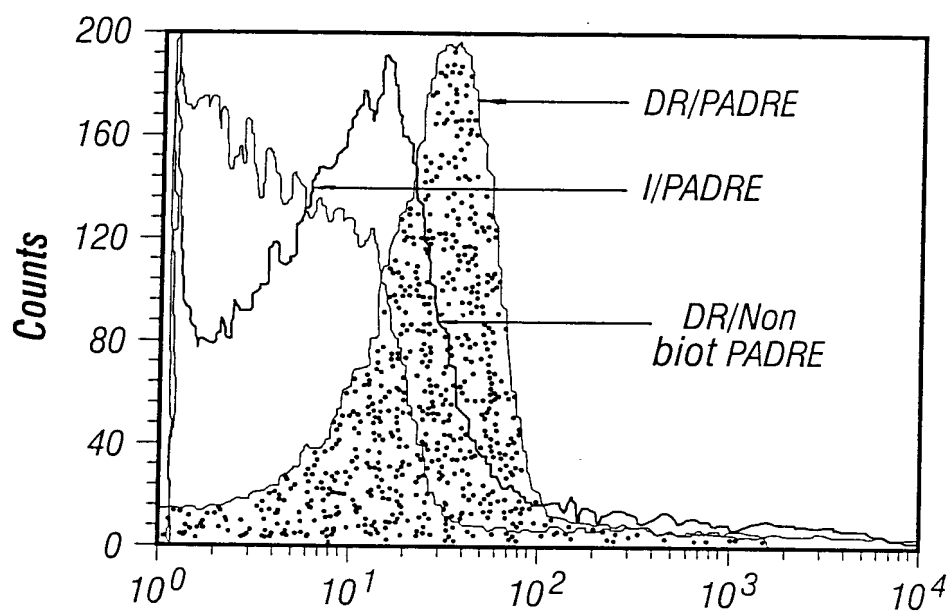


FIG. 21

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PADRE-CY

FIG. 22

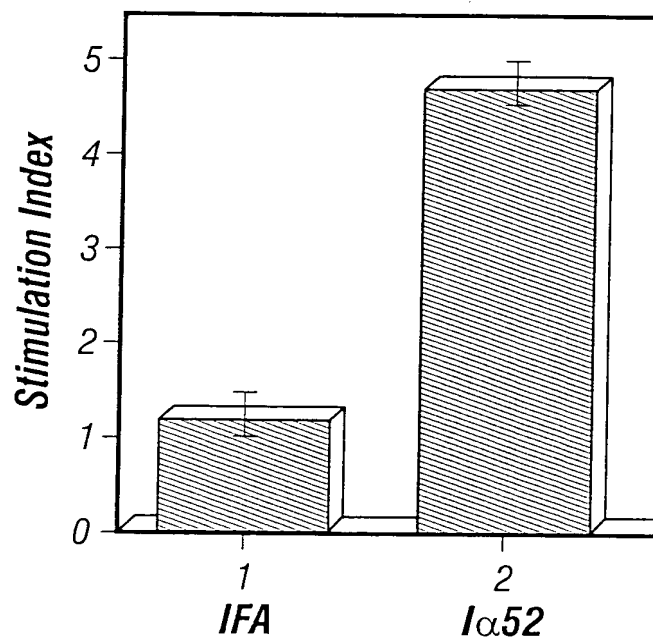
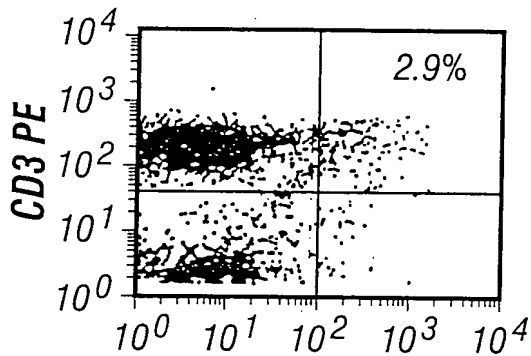


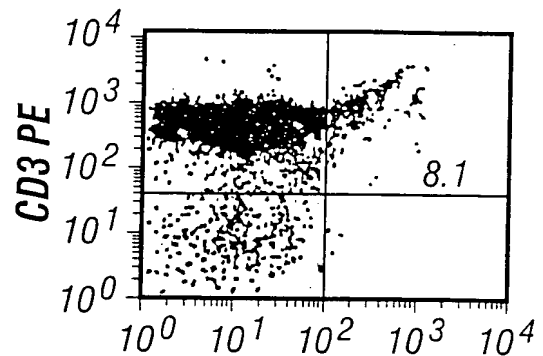
FIG. 26

TCC 16 (WASH COMPLEXES) .007



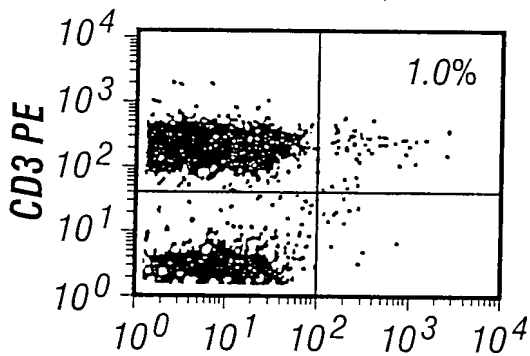
PADRE-CY
FIG. 23A

TCC 16.005



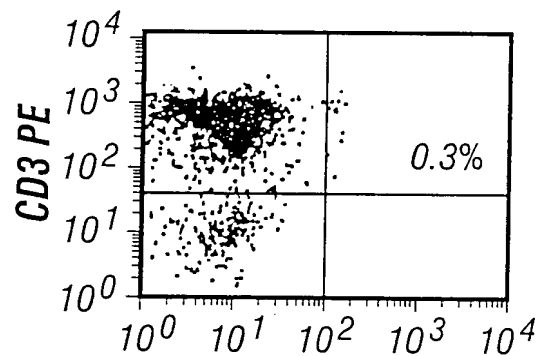
PADRE-CY
FIG. 23B

TCC 16 (DR/HA) .011



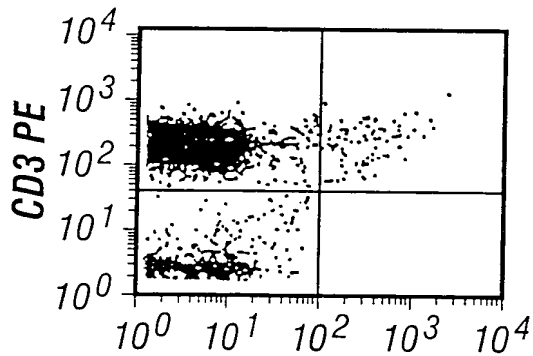
HA-CY
FIG. 23C

TCC 16.006



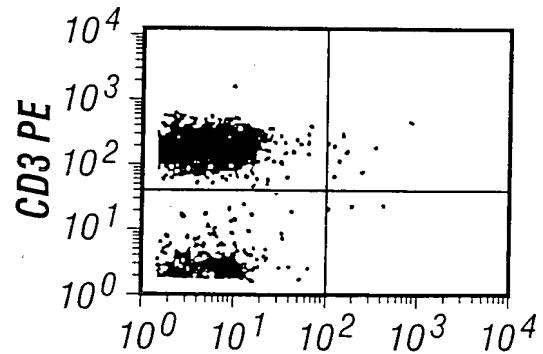
HA-CY
FIG. 23D

TCC 16 (NON-BIOT PADRE) .010



PADRE-CY
FIG. 23E

TCC 16 (CLASS 1/PADRE) .009



PADRE-CY
FIG. 23F

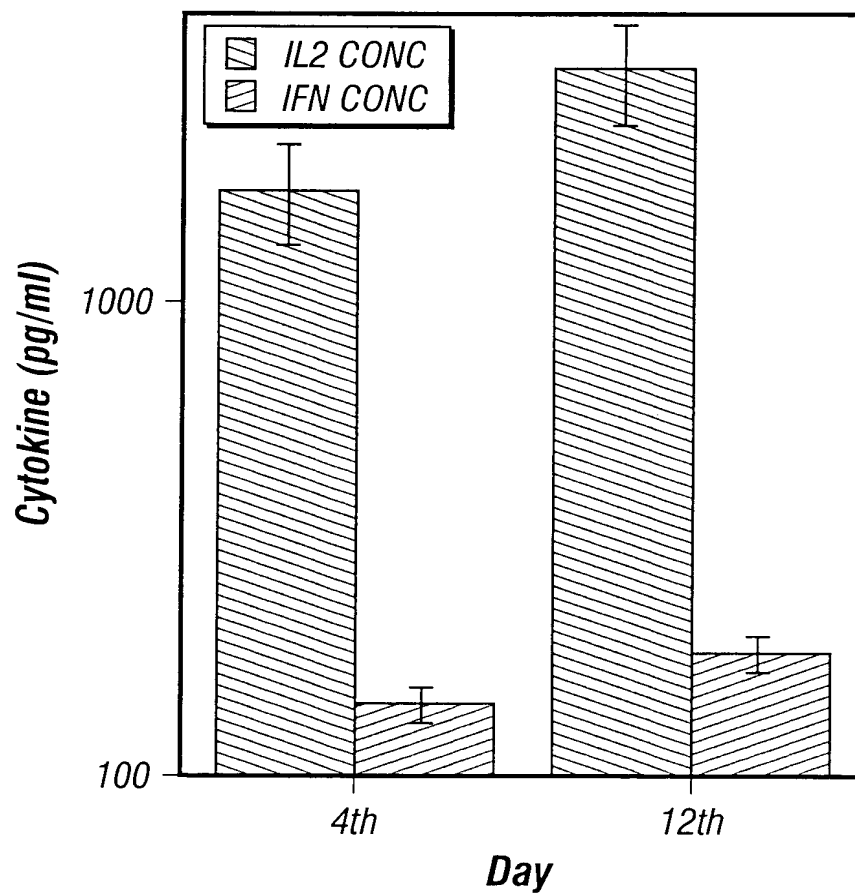


FIG. 24

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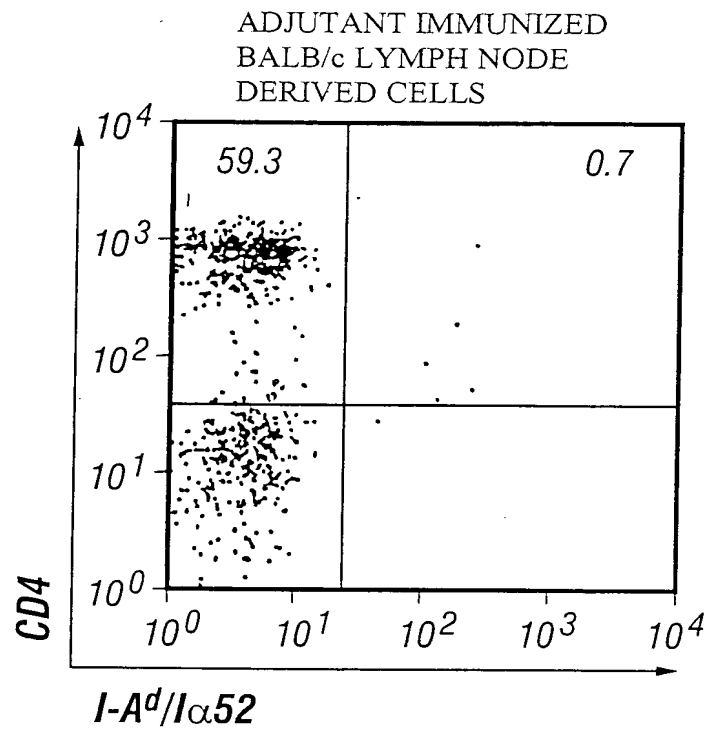


FIG. 25A

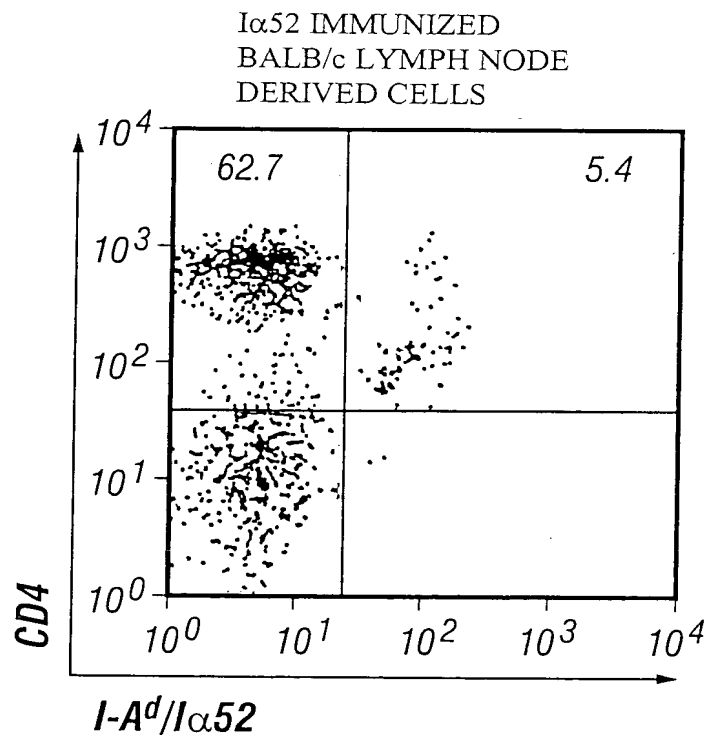


FIG. 25B

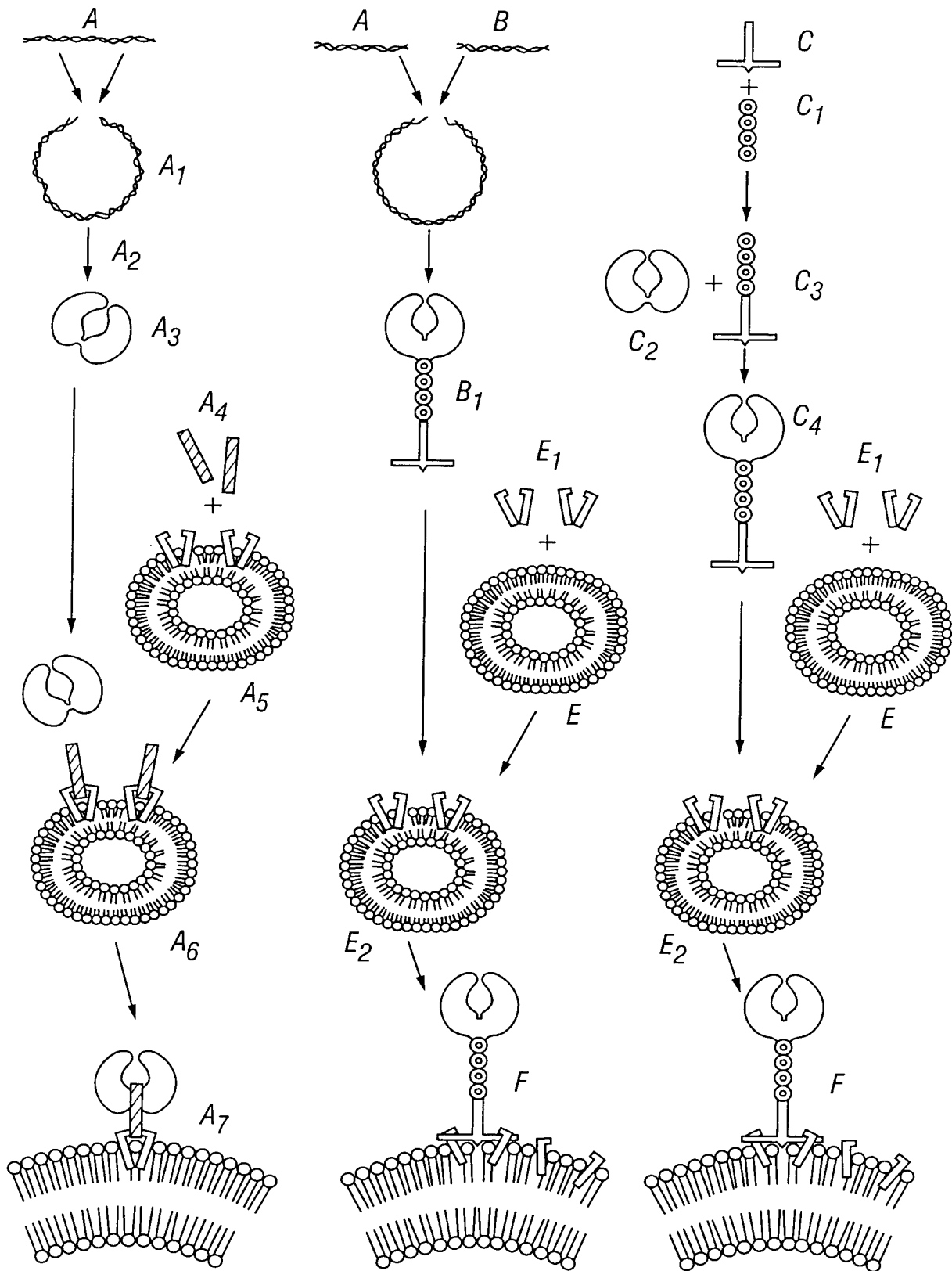
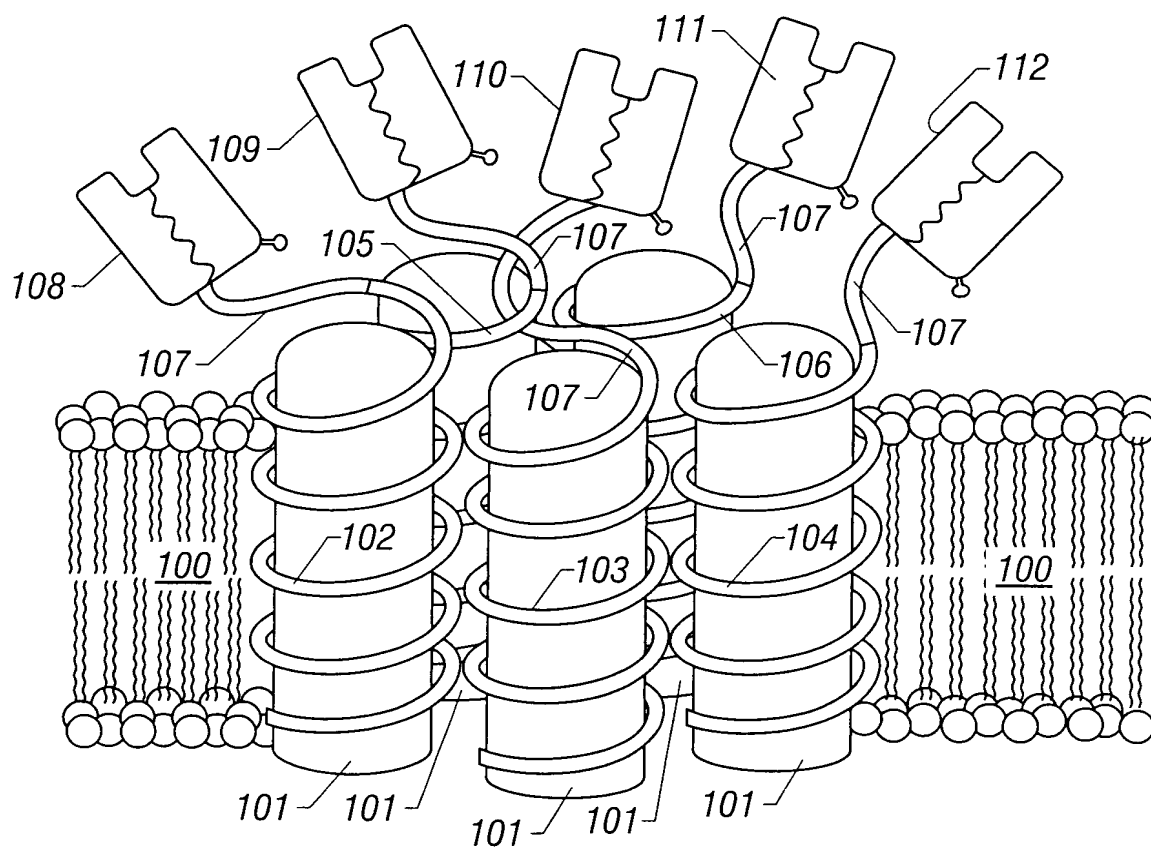


FIG. 27A

FIG. 27B

FIG. 27C

**FIG. 28**

B7.1-CTB construct translation DNA-PROTEIN

M	G	H	T	R	R	Q	G	T	S	P	S	K	C	P
atg	ggc	cac	aca	cgg	agg	cag	gga	aca	tca	cca	tcc	aag	tgt	cca
Y	L	N	F	F	Q	L	L	V	L	A	G	L	S	H
tac	ctc	aat	ttc	ttt	cag	ctc	ttg	gtg	ctg	gct	ggt	ctt	tct	cac
F	C	S	G	V	I	H	V	T	K	E	V	K	E	V
ttc	tgt	tca	ggt	gtt	atc	cac	gtg	acc	aag	gaa	gtg	aaa	gaa	gtg
A	T	L	S	C	G	H	N	V	S	V	E	E	L	A
gca	acg	ctg	tcc	tgt	ggt	cac	aat	gtt	tct	gtt	gaa	gag	ctg	gca
Q	T	R	I	Y	W	Q	K	E	K	K	M	V	L	T
caa	act	cgc	atc	tac	tgg	caa	aag	gag	aag	aaa	atg	gtg	ctg	act
M	M	S	G	D	M	N	I	W	P	E	Y	K	N	R
atg	atg	tct	ggg	gac	atg	aat	ata	tgg	ccc	gag	tac	aag	aac	cgg
T	I	F	D	I	T	N	N	L	S	I	V	I	L	A
acc	atc	ttt	gat	atc	act	aat	aac	ctc	tcc	att	gtg	atc	ctg	gct
L	R	P	S	D	E	G	T	Y	E	C	V	V	L	K
ctg	cgc	cca	tct	gac	gag	ggc	aca	tac	gag	tgt	gtt	gtt	ctg	aag
Y	E	K	D	A	F	K	R	E	H	L	A	E	V	T
tat	gaa	aaa	gac	gct	ttc	aag	cgg	gaa	cac	ctg	gct	gaa	gtg	acg
L	S	V	K	A	D	F	P	T	P	S	I	S	D	F
tta	tca	gtc	aaa	gct	gac	ttc	cct	aca	cct	agt	ata	tct	gac	ttt
E	I	P	T	S	N	I	R	R	I	I	C	S	T	S
gaa	att	cca	act	tct	aat	att	aga	agg	ata	att	tgc	tca	acc	tct
G	G	F	P	E	P	H	L	S	W	L	E	N	G	E
gga	ggt	ttt	cca	gag	cct	cac	ctc	tcc	tgg	ttg	gaa	aat	gga	gaa
E	L	N	A	I	N	T	T	V	S	Q	D	P	E	T
gaa	tta	aat	gcc	atc	aac	aca	aca	gtt	tcc	caa	gat	cct	gaa	act
E	L	Y	A	V	S	E	F	G	G	S	G	G	S	A
gag	ctc	tat	gct	gtt	agc	<u>gaa</u>	<u>ttc</u>	<u>ggc</u>	<u>ggc</u>	<u>tcc</u>	<u>ggt</u>	<u>ggt</u>	<u>agc</u>	<u>gcc</u>
T	P	Q	N	I	T	D	L	C	A	E	Y	H	N	T
aca	cct	caa	aat	att	act	gat	ttg	tgt	gca	gaa	tac	cac	aac	aca
Q	I	H	T	L	N	D	K	I	F	S	Y	T	E	S
caa	ata	cat	acg	cta	aat	gat	aag	ata	ttt	tcg	tat	aca	gaa	tct
L	A	G	K	R	E	M	A	I	I	T	F	K	N	G
cta	gct	gga	aaa	aga	gag	atg	gct	atc	att	act	ttt	aag	aat	ggt

FIG. 29A

B7.1-CTB construct translation DNA-PROTEIN (Cont.)

A T F Q V E V P G S Q H I D S
 gca act ttt caa gta gaa gta cca ggt agt caa cat ata gat tca
 Q K K A I E R M K D T L R I A
 caa aaa aaa gcg att gaa agg atg aag gat acc ctg agg att gca
 Y L T E A K V E K L C V W N N
 tat ctt act gaa gct aaa gtc gaa aag tta tgt gta tgg aat aat
 K T P H A I A A I S M A N *
 aaa acg cct cat gcg att gcc gca att agt atg gca aat taa

FIG. 29B

B7.2-CTB construct translation DNA-PROTEIN

M G L S N I L F V M A F L L S
 atg gga ctg agt aac att ctc ttt gtg atg gcc ttc ctg ctc tct
 G A A P L K I Q A Y F N E T A
 ggt gct gct cct ctg aag att caa gct tat ttc aat gag act gca
 D L P C Q F A N S Q N Q S L S
 gac ctg cca tgc caa ttt gca aac tct caa aac caa agc ctg agt
 E L V V F W Q D Q E N L V L N
 gag cta gta gta ttt tgg cag gac cag gaa aac ttg gtt ctg aat
 E V Y L G K E K F D S V H S K
 gag gta tac tta ggc aaa gag aaa ttt gac agt gtt cat tcc aag
 Y M G R T S F D S D S W T L R
 tat atg ggc cgc aca agt ttt gat tcg gac agt tgg acc ctg aga
 L H N L Q I K D K G L Y Q C I
 ctt cac aat ctt cag atc aag gac aag ggc ttg tat caa tgt atc
 I H H K K P T G M I R I H Q M
 atc cat cac aaa aag ccc aca gga atg att cgc atc cac cag atg
 N S E L S V L A N F S Q P E I
 aat tct gaa ctg tca gtg ctt gct aac ttc agt caa cct gaa ata
 V P I S N I T E N V Y I N L T
 gta cca att tct aat ata aca gaa aat gtg tac ata aat ttg acc
 C S S I H G Y P E P K K M S V
 tgc tca tct ata cac ggt tac cca gaa cct aag aag atg agt gtt

FIG. 30A

B7.2-CTB construct translation DNA-PROTEIN (Cont.)

```

L   L   R   T   K   N   S   T   I   E   Y   D   G   I   M
ttg cta aga acc aag aat tca act atc gag tat gat ggt att atg
Q   K   S   Q   D   N   V   T   E   L   Y   D   V   S   I
cag aaa tct caa gat aat gtc aca gaa ctg tac gac gtt tcc atc
S   L   S   V   S   F   P   D   V   T   S   N   M   T   I
agc ttg tct gtt tca ttc cct gat gtt acg agc aat atg acc atc
F   C   I   L   E   T   D   K   T   R   L   L   S   S   P
ttc tgt att ctg gaa act gac aag acg cgg ctt tta tct tca cct
F   S   I   E   L   E   D   P   Q   P   P   P   D   H   E
ttc tct ata gag ctt gag gac cct cag cct ccc cca gac cac gaa
F   G   G   S   G   G   S   A   T   P   Q   N   I   T   D
ttc ggc ggc tcc ggt ggt agc gcc aca cct caa aat att act gat
L   C   A   E   Y   H   N   T   Q   I   H   T   L   N   D
ttg tgt gca gaa tac cac aac aca caa ata cat acg cta aat gat
K   I   F   S   Y   T   E   S   L   A   G   K   R   E   M
aag ata ttt tcg tat aca gaa tct cta gct gga aaa aga gag atg
A   I   I   T   F   K   N   G   A   T   F   Q   V   E   V
gct atc att act ttt aag aat ggt gca act ttt caa gta gaa gta
P   G   S   Q   H   I   D   S   Q   K   K   A   I   E   R
cca ggt agt caa cat ata gat tca caa aaa aaa gcg att gaa agg
M   K   D   T   L   R   I   A   Y   L   T   E   A   K   V
atg aag gat acc ctg agg att gca tat ctt act gaa gct aaa gtc
E   K   L   C   V   W   N   N   K   T   P   H   A   I   A
gaa aag tta tgt gta tgg aat aat aaa acg cct cat gcg att gcc
A   I   S   M   A   N   *
gca att agt atg gca aat taa

```

FIG. 30B

DRA1-CTB construct translation PROTEIN-DNA

M	A	I	S	G	V	P	V	L	G	F	F	I	I	A
ATG	GCC	ATA	AGT	GGA	GTC	CCT	GTG	CTA	GGA	TTT	TTC	ATC	ATA	GCT
V	L	M	S	A	Q	E	S	W	A	I	K	E	E	H
GTG	CTG	ATG	AGC	GCT	CAG	GAA	TCA	TGG	GCT	ATC	AAA	GAA	GAA	CAT
V	I	I	Q	A	E	F	Y	L	N	P	D	Q	S	G
GTG	ATC	ATC	CAG	GCC	GAG	TTC	TAT	CTG	AAT	CCT	GAC	CAA	TCA	GGC
E	F	M	F	D	F	D	G	D	E	I	F	H	V	D
GAG	TTT	ATG	TTT	GAC	TTT	GAT	GGT	GAT	GAG	ATT	TTC	CAT	GTG	GAT
M	A	K	K	E	T	V	W	R	L	E	E	F	G	R
ATG	GCA	AAG	AAG	GAG	ACG	GTC	TGG	CGG	CTT	GAA	GAA	TTT	GGA	CGA
F	A	S	F	E	A	Q	G	A	L	A	N	I	A	V
TTT	GCC	AGC	TTT	GAG	GCT	CAA	GGT	GCA	TTG	GCC	AAC	ATA	GCT	GTG
D	K	A	N	L	E	I	M	T	K	R	S	N	Y	T
GAC	AAA	GCC	AAC	CTG	GAA	ATC	ATG	ACA	AAG	CGC	TCC	AAC	TAT	ACT
P	I	T	N	V	P	P	E	V	T	V	L	T	N	S
CCG	ATC	ACC	AAT	GTA	CCT	CCA	GAG	GTA	ACT	GTG	CTC	ACG	AAC	AGC
P	V	E	L	R	E	P	N	V	L	I	C	F	I	D
CCT	GTG	GAA	CTG	AGA	GAG	CCC	AAC	GTC	CTC	ATC	TGT	TTC	ATC	GAC
K	F	T	P	P	V	V	N	V	T	W	L	R	N	G
AAG	TTC	ACC	CCA	CCA	GTG	GTC	AAT	GTC	ACG	TGG	CTT	CGA	AAT	GGA
K	P	V	T	T	G	V	S	E	T	V	F	L	P	R
AAA	CCT	GTC	ACC	ACA	GGA	GTG	TCA	GAG	ACA	GTC	TTC	CTG	CCC	AGG
E	D	H	L	F	R	K	F	H	Y	L	P	F	L	P
GAA	GAC	CAC	CTT	TTC	CGC	AAG	TTC	CAC	TAT	CTC	CCC	TTC	CTG	CCC
S	T	E	D	V	Y	D	C	R	V	E	H	W	G	L
TCA	ACT	GAG	GAC	GTT	TAC	GAC	TGC	AGG	GTG	GAG	CAC	TGG	GGC	TTG
D	E	P	L	L	K	H	W	E	F	D	A	P	S	P
GAT	GAG	CCT	CTT	CTC	AAG	CAC	TGG	GAG	TTT	GAT	GCT	CCA	AGC	CCT
L	P	E	T	T	E	E	F	G	G	S	G	G	S	A
CTC	CCA	GAG	ACT	ACA	GAG	<u>GAA</u>	<u>TTC</u>	<u>GGT</u>	<u>GGT</u>	<u>TCC</u>	<u>GGT</u>	<u>GGT</u>	<u>TCC</u>	<u>GCG</u>
Q	L	E	W	E	L	Q	A	L	E	K	E	N	A	Q
CAG	CTG	GAA	TGG	GAA	CTG	CAG	GCG	CTG	GAA	AAA	GAA	AAC	GCG	CAG
L	E	W	E	L	Q	A	L	E	K	E	L	A	Q	G
CTG	GAA	TGG	GAA	CTG	CAG	GCG	CTG	GAA	AAA	GAA	CTG	GCG	CAG	<u>GGC</u>

FIG. 31A

DRA1-CTB construct translation PROTEIN-DNA (Cont.)

G S G G S A T P Q N I T D L C
 GGC TCC GGT GGT AGC GCC ACA CCT CAA AAT ATT ACT GAT TTG TGT
 A E Y H N T Q I H T L N D K I
 GCA GAA TAC CAC AAC ACA CAA ATA CAT ACG CTA AAT GAT AAG ATA
 F S Y T E S L A G K R E M A I
 TTT TCG TAT ACA GAA TCT CTA GCT GGA AAA AGA GAG ATG GCT ATC
 I T F K N G A T F Q V E V P G
 ATT ACT TTT AAG AAT GGT GCA ACT TTT CAA GTA GAA GTA CCA GGT
 S Q H I D S Q K K A I E R M K
 AGT CAA CAT ATA GAT TCA CAA AAA AAA GCG ATT GAA AGG ATG AAG
 D T L R I A Y L T E A K V E K
 GAT ACC CTG AGG ATT GCA TAT CTT ACT GAA GCT AAA GTC GAA AAG
 L C V W N N K T P H A I A A I
 TTA TGT GTA TGG AAT AAT AAA ACG CCT CAT GCG ATT GCC GCA ATT
 S M A N *
 AGT ATG GCA AAT TAA

FIG. 31B

DRB1-biotag construct translation PROTEIN-DNA

1/1

M V C L K F P G G S C M A A L
 ATG GTG TGT CTG AAG TTC CCT GGA GGC TCC TGC ATG GCA GCT CTG

46/16

T V T L M V L S S P L A L A G
 ACA GTG ACA CTG ATG GTG CTG AGC TCC CCA CTG GCT TTG GCT GGG

91/31

D T R P R F L E Q V K H E C H
 GAC ACC CGA CCA CGT TTC TTG GAG CAG GTT AAA CAT GAG TGT CAT

136/46

F F N G T E R V R F L D R Y F
 TTC TTC AAC GGG ACG GAG CGG GTG CGG TTC CTG GAC AGA TAC TTC

181/61

Y H Q E E Y V R F D S D V G E
 TAT CAC CAA GAG GAG TAC GTG CGC TTC GAC AGC GAC GTG GGG GAG

FIG. 32A

DRB1-biotag construct translation PROTEIN-DNA (Cont.)

226/76

Y R A V T E L G R P D A E Y W
TAC CGG GCG GTG ACG GAG CTG GGG CGG CCT GAT GCC GAG TAC TGG

271/91

N S Q K D L L E Q K R A A V D
AAC AGC CAG AAG GAC CTC CTG GAG CAG AAG CGG GCC GCG GTG GAC

316/106

T Y C R H N Y G V G E S F T V
ACC TAC TGC AGA CAC AAC TAC GGG GTT GGT GAG AGC TTC ACA GTG

361/121

Q R R V Y P E V T V Y P A K T
CAG CGG CGA GTC TAT CCT GAG GTG ACT GTG TAT CCT GCA AAG ACC

406/136

Q P L Q H H N L L V C S V N G
CAG CCC CTG CAG CAC CAC AAC CTC CTG GTC TGC TCT GTG AAT GGT

451/151

F Y P G S I E V R W F R N G Q
TTC TAT CCA GGC AGC ATT GAA GTC AGG TGG TTC CGG AAC GGC CAG

496/166

E E K T G V V S T G L I Q N G
GAA GAG AAG ACT GGG GTG GTG TCC ACA GGC CTG ATC CAG AAT GGA

541/181

D W T F Q T L V M L E T V P R
GAC TGG ACC TTC CAG ACC CTG GTG ATG CTG GAA ACA GTT CCT CGG

586/196

S G E V Y T C Q V E H P S L T
AGT GGA GAG GTT TAC ACC TGC CAA GTG GAG CAC CCA AGC CTG ACG

631/211

S P L T V E W R A R S E S A Q
AGC CCT CTC ACA GTG GAA TGG AGA GCA CGG TCT GAA TCT GCA CAG

676/226

S K G G S G G S A Q L K K K L
AGC AAG GGC GGC TCC GGT GGT AGC GCC CAG CTG AAG AAG AAA CTC

FIG. 32B

DRB1-biotag construct translation PROTEIN-DNA (Cont.)

721/241

Q A L K K K N A Q L K Q K L Q
CAG GCT CTG AAA AAA AAG AAT GCC CAG CTC AAG CAG AAG CTG CAG

766/256

A L K K K L A Q G S G G S A G
GCC CTG AAG AAA AAG CTG GCT CAG GGT TCC GGT GGT TCC GCG GGT

811/271

G G L N D I F E A Q K I E W H
GGT GGT TTG AAC GAC ATC TTC GAA GCT CAG AAA ATC GAA TGG CAC

856/286

* *

TAA TAA

FIG. 32C

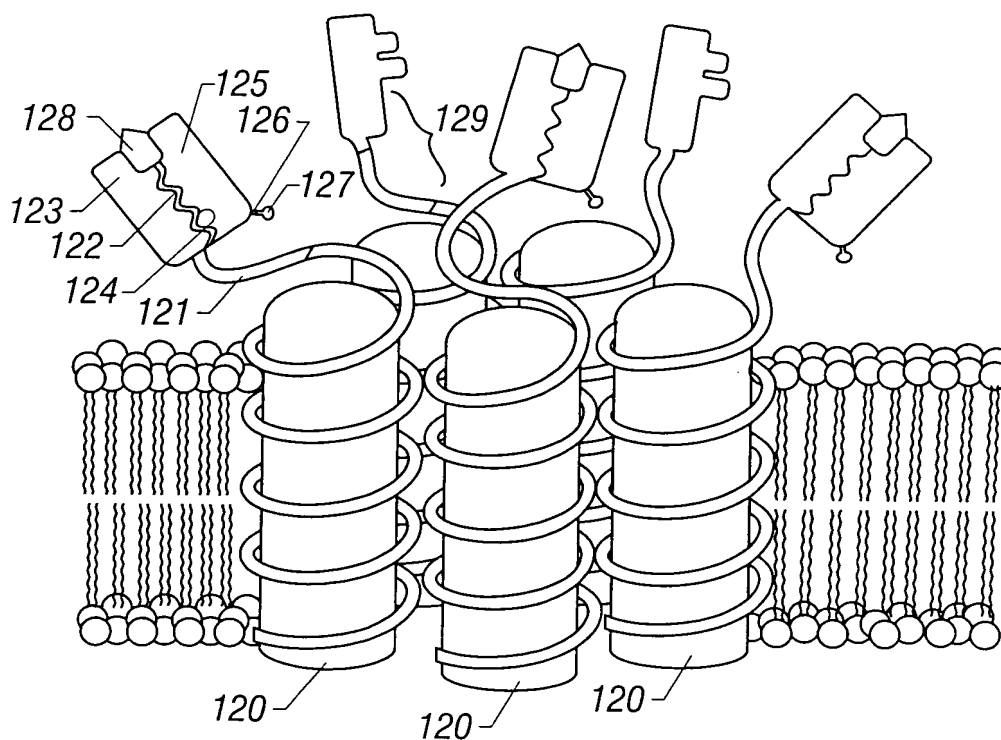


FIG. 33

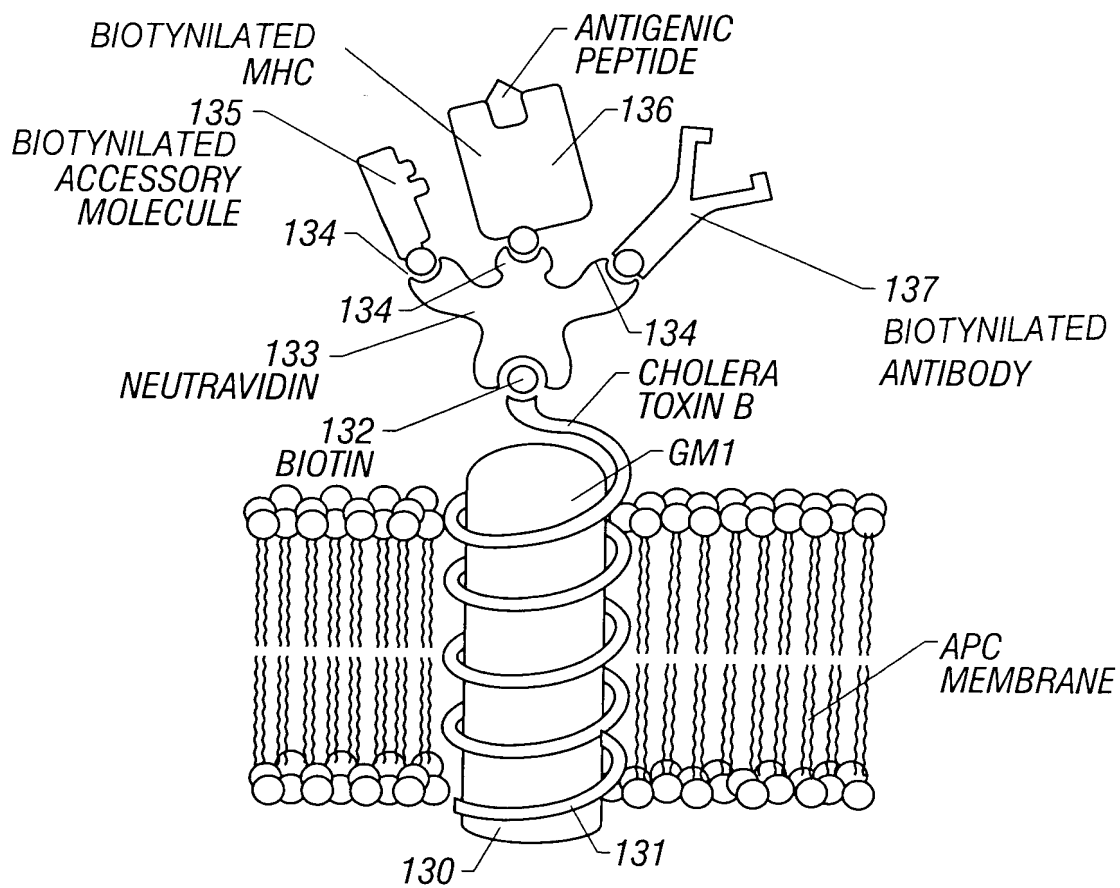


FIG. 34

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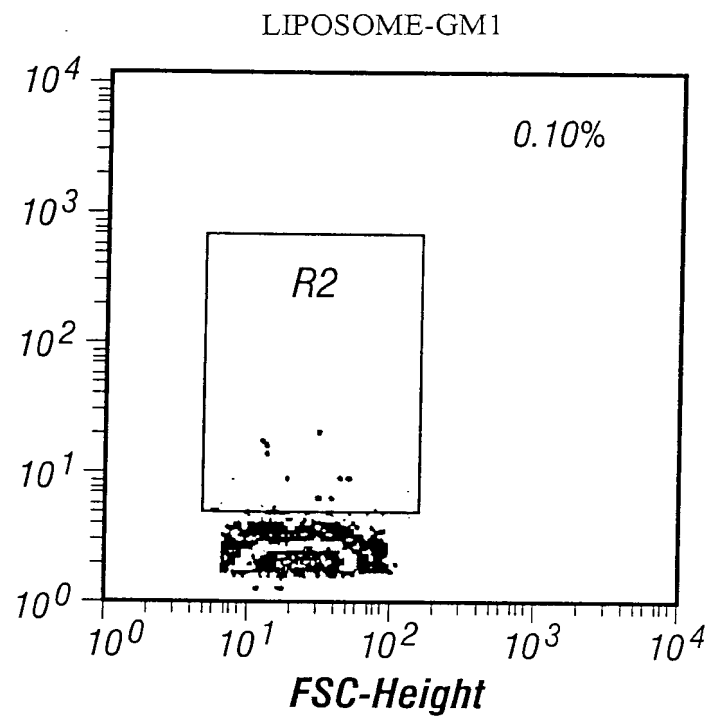


FIG. 35A

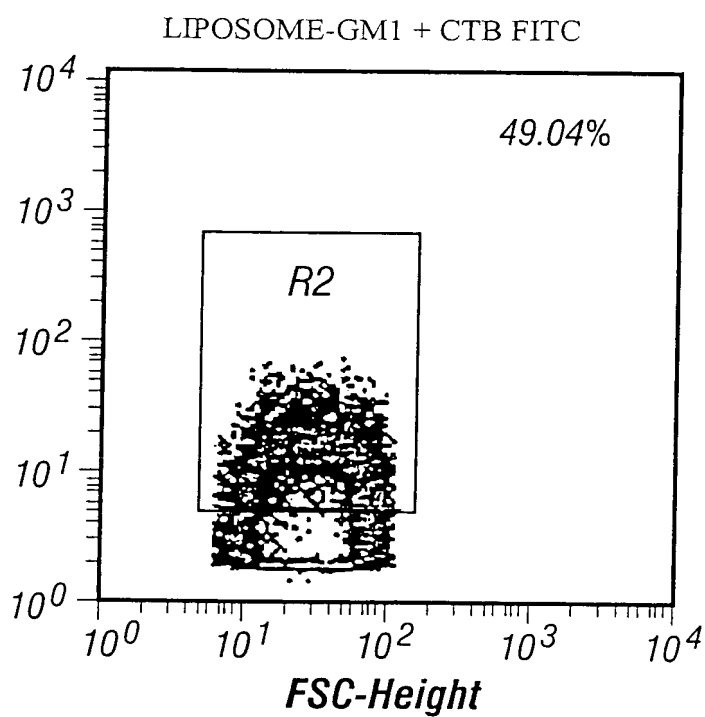


FIG. 35B

<u>Name</u>	<u>Parameter</u>	<u>Gate</u>	<u>p MOLES CTB FITC</u>	<u>GEO MEAN</u>	<u>%GATED M2</u>
Lip.001	FL1-H	G1	CONTROL-0	2.32	8.1
Lip.002	FL1-H	G1	25pMOLES	2.25	6.1
Lip.003	FL1-H	G1	50pMOLES	3.17	27.2
Lip.004	FL1-H	G1	100pMOLES	2.78	20.4
Lip.005	FL1-H	G1	200pMOLES	3.07	27.5
Lip.006	FL1-H	G1	400pMOLES	3.52	40.4
Lip.007	FL1-H	G1	800pMOLES	5.59	73.0
Lip.008	FL1-H	G1	2000pMOLES	7.57	82.4
Lip.009	FL1-H	G1	5000pMOLES	20.82	97.1

FIG. 36

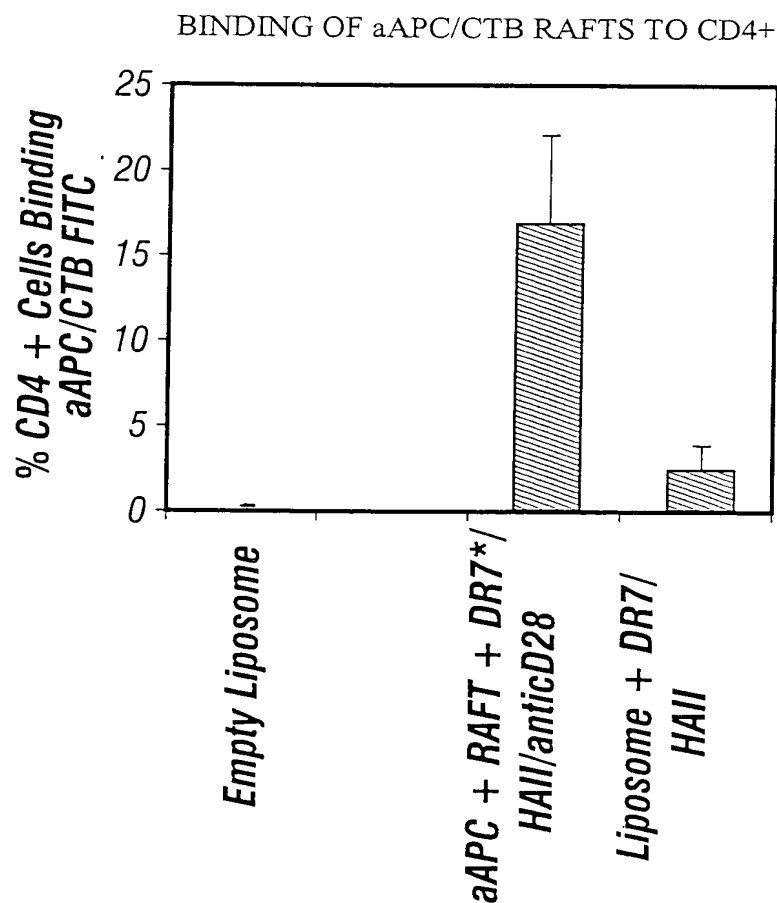


FIG. 37

CELLS + aAPC + RAFT (DR7*/HAI)

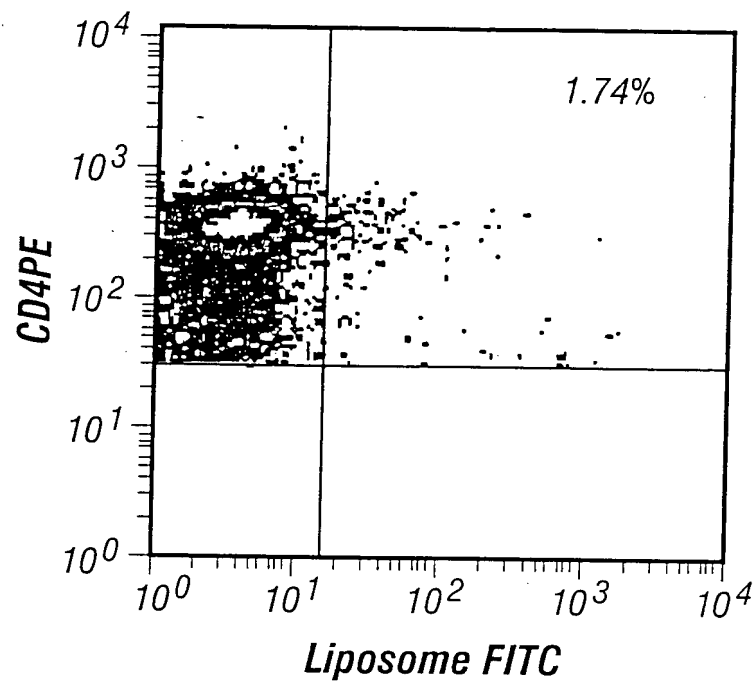


FIG. 38A

CELLS + aAPC (DR7/HAI)

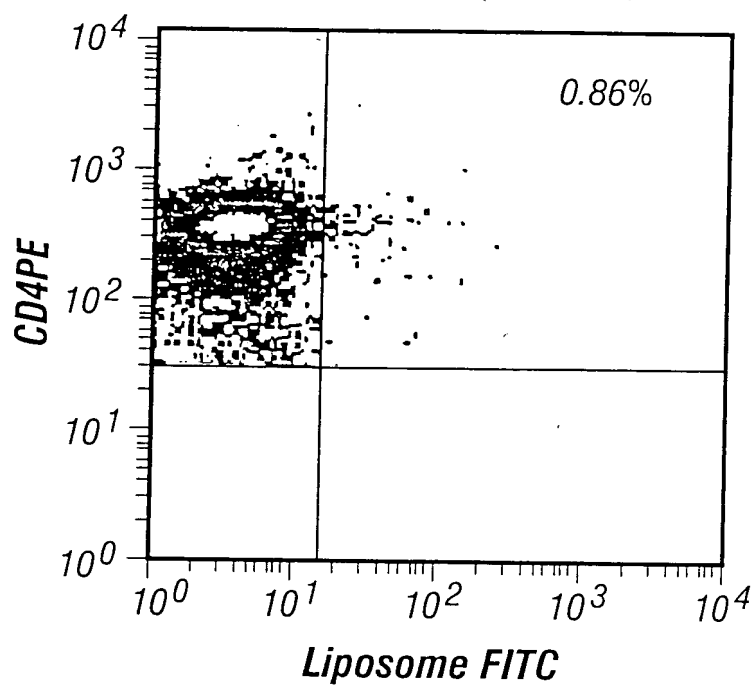
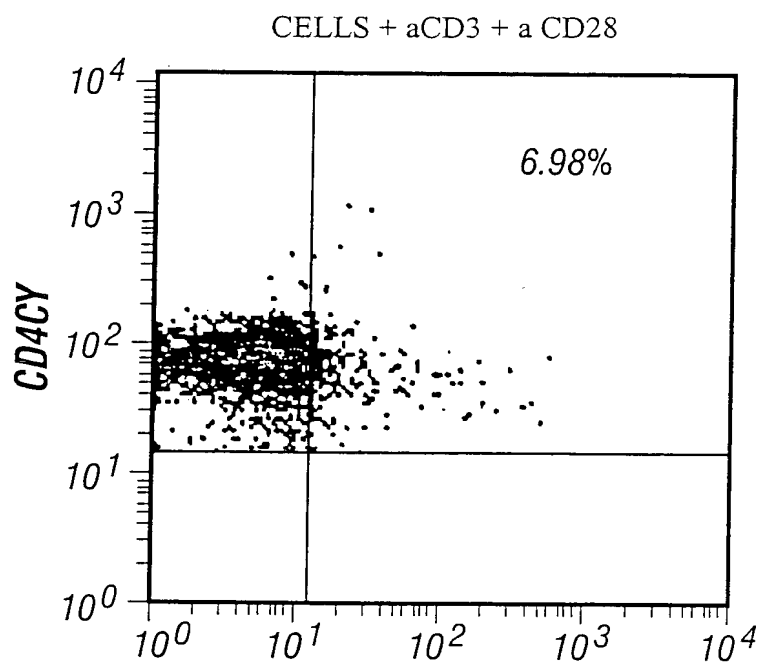
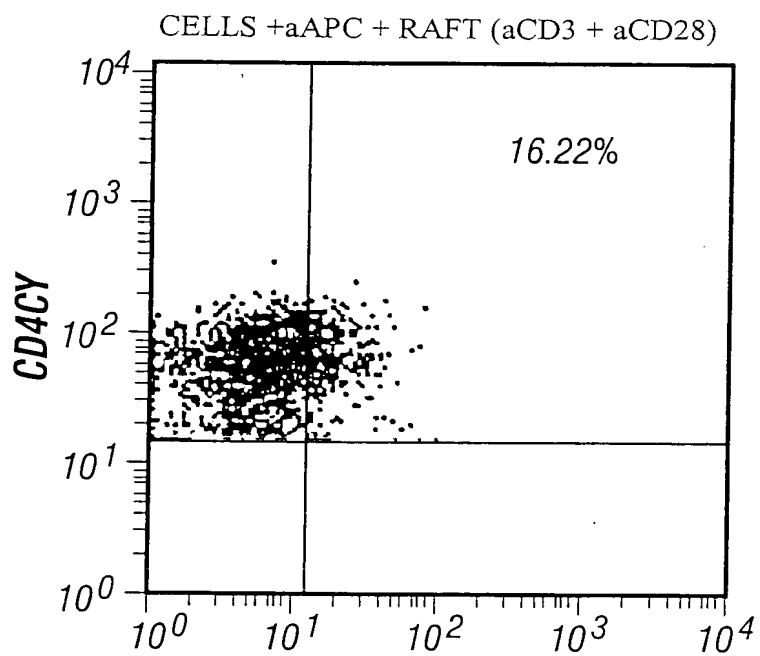


FIG. 38B



IL-2 PE
FIG. 39A



IL-2 PE
FIG. 39B

CD69 EXPRESSION BY CD4-POSITIVE CELLS

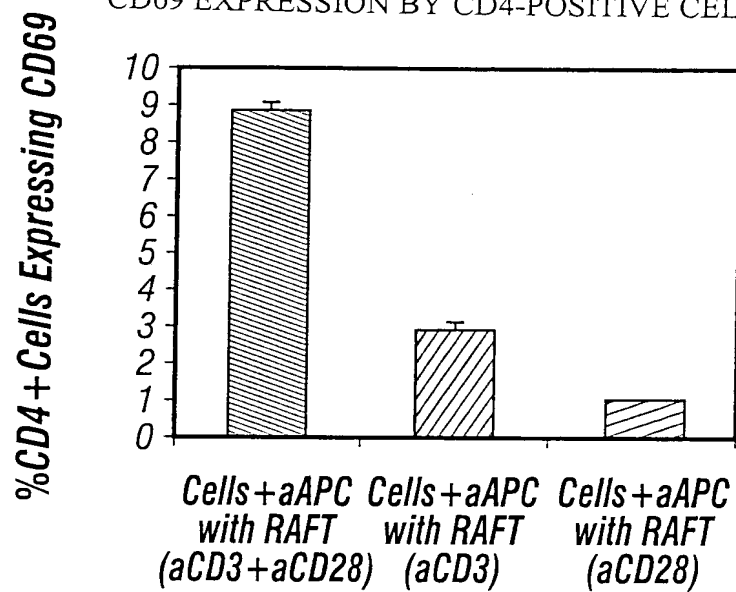


FIG. 40

IL-2 PRODUCTION BY CD4-POSITIVE CELLS

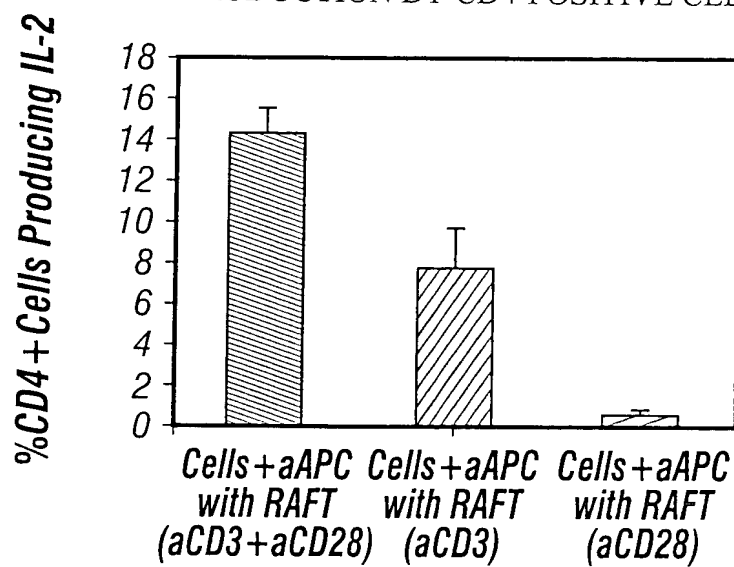


FIG. 41

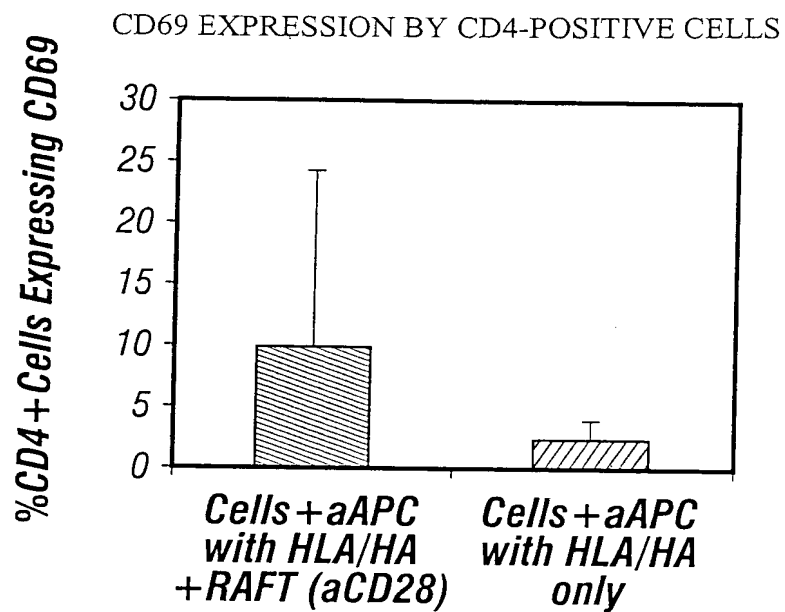


FIG. 42

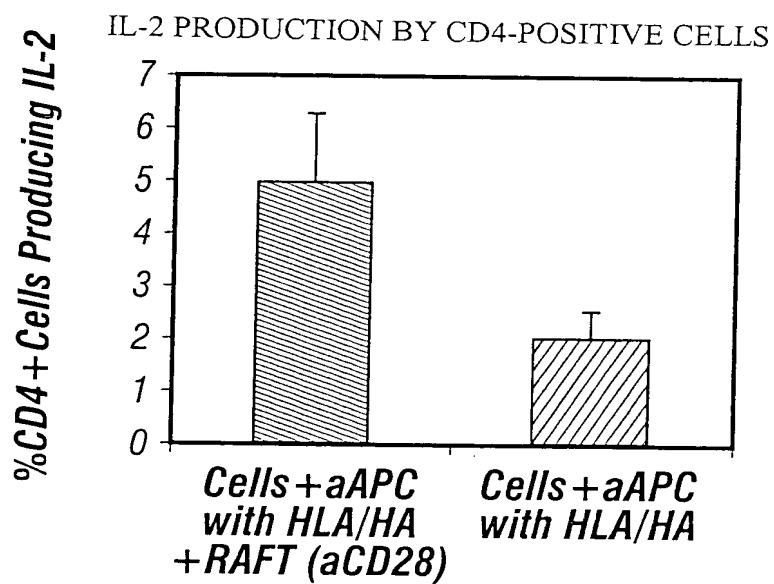


FIG. 43